

PRODUCT MONOGRAPH  
INCLUDING PATIENT MEDICATION INFORMATION

**Pr ACH-Ezetimibe**

Ezetimibe Tablets

Tablets, 10 mg, Oral

USP

Cholesterol Absorption Inhibitor

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Date of Initial Authorization:  
September 15, 2014

Date of Revision:  
SEP 13, 2024

Submission Control No: 285318

## RECENT MAJOR LABEL CHANGES

<a href="#">3 SERIOUS WARNINGS AND PRECAUTIONS BOX</a>	09/2024
<a href="#">7 WARNINGS AND PRECAUTIONS</a>	09/2024

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## PART I: HEALTH PROFESSIONAL INFORMATION

### 1 INDICATIONS

ACH-Ezetimibe (Ezetimibe Tablets) is indicated as an adjunct to lifestyle changes, including diet, when the response to diet and other non-pharmacological measures alone has been inadequate.

#### Primary Hypercholesterolemia

ACH-Ezetimibe, administered alone or with an HMG-CoA reductase inhibitor (statin), is indicated for:

- the reduction of elevated total cholesterol (total-C), low density lipoprotein cholesterol (LDL-C), apolipoprotein B (Apo B), and triglycerides (TG) and
- to increase high density lipoprotein cholesterol (HDL-C) in patients with primary (heterozygous familial and non-familial) hypercholesterolemia.

ACH-Ezetimibe, administered in combination with fenofibrate, is indicated for:

- the reduction of elevated total-C, LDL-C, Apo B, and non-HDL-C in patients with mixed hyperlipidemia.

#### Homozygous Familial Hypercholesterolemia (HoFH)

ACH-Ezetimibe, administered with a statin, is indicated for:

- the reduction of elevated total-C and LDL-C levels in patients with HoFH as an adjunct to treatments such as LDL apheresis or if such treatments are not possible.

#### Homozygous Sitosterolemia (Phytosterolemia)

ACH-Ezetimibe is indicated for:

- the reduction of elevated sitosterol and campesterol levels in patients with homozygous familial sitosterolemia.

#### 1.1 Pediatrics

Pediatrics (<10 years): Treatment with ACH-Ezetimibe in children (<10 years) is not recommended.

#### 1.2 Geriatrics

Geriatrics (> 65 years of age): Evidence from clinical studies and experience suggests that LDL-C reduction and safety profile are comparable between elderly and young subjects treated with ezetimibe tablets.

### 2 CONTRAINDICATIONS

- ACH-Ezetimibe is contraindicated in patients who are hypersensitive to this drug or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container. For a complete listing, see [6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING](#).
- The combination of ACH-Ezetimibe with a statin is contraindicated in patients with active liver disease or unexplained persistent elevations in serum transaminases.
- All statins and fenofibrate are contraindicated in pregnant and nursing women. When ACH-Ezetimibe is administered with a statin or with fenofibrate in a woman of childbearing potential, refer to the product labeling for that medication (see [7 WARNINGS AND PRECAUTIONS, 7.1 Special Populations, 7.1.1 Pregnant Women](#)).
- Due to the presence of lactose in ACH-Ezetimibe tablets, use in patients with hereditary problems of

galactose intolerance, glucose-galactose malabsorption or the Lapp lactase deficiency is also contraindicated (see [7 WARNINGS AND PRECAUTIONS](#), [Sensitivity/Resistance](#)).

### 3 SERIOUS WARNINGS AND PRECAUTIONS BOX

#### Serious Warnings and Precautions

- Drug induced liver injury including hepatitis,
- Pancreatitis,
- Myopathy/rhabdomyolysis,
- Myalgia,
- Anaphylaxis,
- Severe cutaneous adverse reactions (SCARs), including Stevens-Johnson Syndrome (SJS), Toxic Epidermal Necrolysis (TEN), drug reaction with eosinophilic and systemic symptoms (DRESS), (see [7 WARNINGS AND PRECAUTIONS](#); [8 ADVERSE REACTIONS](#); [8.5 Post-Market Adverse Reactions](#))

### 4 DOSAGE AND ADMINISTRATION

#### 4.1 Dosing Considerations

- Patients should be placed on a standard cholesterol-lowering diet at least equivalent to the NCEP Adult Treatment Panel III (ATP III) TLC diet before receiving ACH-Ezetimibe, and should continue on this diet during treatment with ACH-Ezetimibe. If appropriate, a program of weight control and physical exercise should be implemented.
- Prior to initiating therapy with ACH-Ezetimibe, secondary causes for elevations in plasma lipid levels should be excluded. A lipid profile should also be performed.

#### 4.2 Recommended Dose and Dosage Adjustment

The recommended dose of ACH-Ezetimibe is 10 mg once daily orally, alone, with a statin, or with fenofibrate. ACH-Ezetimibe can be taken with or without food at any time of the day but preferably at the same time each day.

**Use in the Elderly:** No dosage adjustment is required for elderly patients (see [7 WARNINGS AND PRECAUTIONS](#), [7.1 Special Populations](#), [7.1.4 Geriatrics](#)).

**Use in Pediatric Patients:** Children and adolescents  $\geq 10$  years: No dosage adjustment is required (see [7 WARNINGS AND PRECAUTIONS](#), [7.1 Special Populations](#), [7.1.3 Pediatrics](#)).

**Use in Patients with Hepatic Impairment:** No dosage adjustment is required in patients with mild hepatic insufficiency (Child-Pugh score 5 to 6). Treatment with ACH-Ezetimibe is not recommended in patients with moderate (Child-Pugh score 7 to 9) or severe (Child-Pugh score  $>9$ ) liver dysfunction (see [7 WARNINGS AND PRECAUTIONS](#), [Hepatic/Biliary/Pancreatic](#), [Patients with Liver Impairment](#)).

**Use in Patients with Renal Impairment:** No dosage adjustment is required for patients with renal impairment (see [7 WARNINGS AND PRECAUTIONS](#), [Renal](#)).

**Co-administration with Bile Acid Sequestrants:** ACH-Ezetimibe should be administered either 2 hours or longer before or 4 hours or longer after administration of a bile acid sequestrant (see [9 DRUG](#)

[INTERACTION, 9.4 Drug-Drug Interactions, Cholestyramine](#)).

#### 4.4 Administration

ACH-Ezetimibe tablet is for oral administration.

ACH-Ezetimibe can be taken with or without food at any time of the day but preferably at the same time each day.

#### 4.5 Missed Dose

The recommended dosing regimen is one tablet, once daily. If a dose is missed, the patient should be counselled to resume the usual schedule of one tablet daily.

### 5 OVERDOSAGE

In clinical studies, administration of ezetimibe, 50 mg/day to 15 healthy subjects for up to 14 days, or 40 mg/day to 18 patients with primary hypercholesterolemia for up to 56 days, was generally well tolerated.

A few cases of overdose with ezetimibe tablets have been reported; most have not been associated with adverse experiences. Reported adverse experiences have not been serious. In the event of an overdose, symptomatic and supportive measures should be employed.

For management of a suspected drug overdose, contact your regional poison control centre.

### 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

**Table 1 – Dosage Forms, Strengths, Composition and Packaging**

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Oral	Tablet 10 mg	croscarmellose sodium, lactose monohydrate, magnesium stearate, polysorbate 80, povidone K-30 and sodium lauryl sulfate.

ACH-Ezetimibe is available as a 10 mg tablet for oral administration.

ACH-Ezetimibe is formulated as white to off-white, capsule shaped, flat faced with beveled edge, uncoated tablets, debossed with “10” on one side and plain on other side. Each tablet contains 10 mg of active ingredient, ezetimibe.

ACH-Ezetimibe is packaged in blister packs of 30 tablets (3 strips containing 10 tablets each). ACH-Ezetimibe is also available in HDPE bottles of 30, 100 & 500 tablets.

## 7 WARNINGS AND PRECAUTIONS

Please see [3 SERIOUS WARNINGS AND PRECAUTIONS BOX](#).

### General

When ACH-Ezetimibe is to be administered with a statin or with fenofibrate, please refer also to the Product Monograph for that medication. Note that all statins and fenofibrate are contraindicated in pregnant women (see the Product Monograph for the medication; see [7 WARNINGS AND PRECAUTIONS, 7.1 Special Populations, 7.1.1 Pregnant Women](#)).

Sex: Plasma concentrations for total ezetimibe are slightly higher (<20%) in women than in men. LDL-C reduction and safety profile are comparable between men and women treated with ezetimibe. Therefore, no dosage adjustment is necessary on the basis of sex.

Race: Based on a meta-analysis of pharmacokinetic studies, there were no pharmacokinetic differences between Blacks and Caucasians.

### Hepatic/Biliary/Pancreatic

ACH-Ezetimibe monotherapy: Liver function tests should be considered at initiation of ACH-Ezetimibe monotherapy and then as indicated (see [8 ADVERSE REACTIONS, 8.4 Abnormal Laboratory Findings : Hematologic, Clinical Chemistry and Other Quantitative Data Clinical Trial Findings](#)).

Concomitant Administration with a Statin or Fenofibrate: When ACH-Ezetimibe is initiated in a patient already taking a statin or fenofibrate, liver function tests should be considered at initiation of ACH-Ezetimibe therapy, and then as indicated (see [8 ADVERSE REACTIONS, 8.4 Abnormal Laboratory Findings : Hematologic, Clinical Chemistry and Quantitative Data Clinical Trial Findings](#)).

When ACH-Ezetimibe is initiated at the same time as a statin or fenofibrate, liver function tests should be performed at initiation of therapy and according to the recommendations of that medication (see [8 ADVERSE REACTIONS, 8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Quantitative Data Clinical Trial Findings](#)).

**Liver Enzymes:** In controlled monotherapy studies, the incidence of consecutive elevations ( $\geq 3$  times the upper limit of normal [ULN]) in serum transaminases was similar between ezetimibe (0.5%) and placebo (0.3%).

In controlled co-administration trials in patients receiving ezetimibe tablets with a statin, the incidence of consecutive transaminase elevations ( $\geq 3 \times$  ULN) was 1.3% compared to 0.4% in patients on a statin alone.

**Patients with Liver Impairment:** The pharmacokinetics of ezetimibe were examined in patients with impaired liver function as defined by the Child-Pugh scoring system.

- In patients with mild hepatic insufficiency (Child-Pugh score 5 or 6), the mean area under the curve (AUC) for total ezetimibe (after a single 10 mg dose of ezetimibe tablets) was increased approximately 1.7-fold compared to healthy subjects. No dosage adjustment is necessary for patients with mild hepatic insufficiency.
- In patients with moderate hepatic insufficiency (Child-Pugh score 7 to 9), the mean AUC for total ezetimibe (after multiple doses of 10 mg daily) was increased approximately 4-fold on Day 1 and Day 14 compared to healthy subjects. Due to the unknown effects of the increased exposure to

ezetimibe in patients with moderate (Child-Pugh score 7 to 9) or severe (Child-Pugh score >9) hepatic insufficiency, ezetimibe is not recommended in these patients.

- No pharmacokinetic studies with ezetimibe have been carried out in patients with either active liver disease or unexplained and persistent elevations in serum transaminases. It is recommended that care be exercised in such patients.

The co-administration of ACH-Ezetimibe and a statin is contraindicated in patients with active liver disease or unexplained and persistent elevations in serum transaminases.

Post-marketing reports of adverse events have included rare cases of hepatitis in patients taking ezetimibe tablets. There is sufficient evidence to suggest a causal association between ezetimibe monotherapy signs or symptoms of hepatitis, liver function should be evaluated.

**Concomitant Administration with fibrates:** The co-administration of ezetimibe with fibrates other than fenofibrate has not been studied. Therefore, co-administration of ACH-Ezetimibe and fibrates (other than fenofibrate) is not recommended (see [9 DRUG INTERACTIONS](#)).

**Fenofibrate:** If cholelithiasis is suspected in a patient receiving ACH-Ezetimibe and fenofibrate, gallbladder studies are indicated and alternative lipid-lowering therapy should be considered (see [8 ADVERSE REACTIONS](#) and the Product Monograph for fenofibrate).

**Pancreatitis:** Post-marketing reports of adverse events have included rare cases of acute pancreatitis occurring in patients taking ezetimibe tablets, although causality has not been proven. The diagnosis of acute pancreatitis should be considered in patients taking ezetimibe tablets who develop sudden acute abdominal pain.

## Immune

Post-marketing reports of adverse events have included rare cases of Severe Cutaneous Adverse Reactions in patients taking ezetimibe tablets. There is sufficient evidence to suggest at least a reasonable possibility of a causal association with some cases of Stevens-Johnson Syndrome (SJS), Toxic Epidermal Necrolysis (TEN), Drug reaction with eosinophilic and systemic symptoms (DRESS). (see [3 SERIOUS WARNINGS AND PRECAUTIONS BOX](#)),

## Musculoskeletal

**Myopathy/Rhabdomyolysis:** Myopathy and rhabdomyolysis are known adverse effects of statins and fibrates. Post-marketing reports of adverse events have included rare cases of myopathy/rhabdomyolysis occurring in patients taking ezetimibe tablets with or without a statin, regardless of causality. Myopathy/Rhabdomyolysis should be considered in patients presenting with muscle pain during treatment with ACH-Ezetimibe with or without a statin or fenofibrate, and consideration given to discontinuation of the drugs. Most cases of myopathy/rhabdomyolysis resolved when drugs were discontinued.

**Myalgia:** In controlled clinical trials, the incidence of myalgia was 5.0% for ezetimibe tablets vs 4.6% for placebo (see [ADVERSE REACTIONS, Table 2](#)). Post-marketing reports of adverse events have included myalgia in patients taking ezetimibe tablets with or without a statin, regardless of causality. Patients should be instructed to contact their physician if they experience persistent and severe muscle pains



with no obvious cause.

A number of patients treated with ezetimibe tablets, in whom myalgia occurred had previously experienced myalgia (with or without elevated CK levels) with statin therapy. Patients with a history of statin intolerance (myalgia with or without elevated CK levels) should be closely monitored for adverse muscle events during treatment with ACH-Ezetimibe.

### **Renal**

Renal Insufficiency: After a single 10 mg dose of ezetimibe tablets in patients with severe renal disease, the mean AUC for total ezetimibe was increased approximately 1.5-fold, compared to healthy subjects. Accordingly, no dosage adjustment is necessary for renal impaired patients.

### **Sensitivity/Resistance**

Due to the presence of lactose in ACH-Ezetimibe tablets, patients with hereditary problems of galactose intolerance, glucose-galactose malabsorption or the Lapp lactase deficiency should not take ACH-Ezetimibe (see [2 CONTRAINDICATIONS](#))

## **7.1 Special Populations**

### **7.1.1 Pregnant Women**

No clinical data on exposed pregnancies are available for ezetimibe tablets. The effects of ezetimibe on labour and delivery in pregnant women are unknown. Note that all statins and fenofibrate are contraindicated in pregnant women (see the Product Monograph for the medication). Caution should be exercised when prescribing to pregnant women.

### **7.1.2 Breast-feeding**

Studies in rats have shown that ezetimibe is excreted in milk. It is not known whether ezetimibe is excreted into human breast milk, therefore, ACH-Ezetimibe should not be used in nursing mothers unless the potential benefit justifies the potential risk to the infant. Note that all statins and fenofibrate are contraindicated in nursing women (see the Product Monograph for the medication).

### **7.1.3 Pediatrics**

The pharmacokinetics of ezetimibe tablets in adolescents (10 to 18 years) have been shown to be similar to that in adults. Treatment experience with ezetimibe tablets in the pediatric population is limited to 4 patients (9 to 17 years) in the sitosterolemia study and 5 patients (11 to 17 years) in the HoFH study. Treatment with ACH-Ezetimibe in children (<10 years) is not recommended.

### **7.1.4 Geriatrics**

Plasma concentrations for total ezetimibe are about 2-fold higher in the elderly ( $\geq 65$  years) than in the young (18 to 45 years). LDL-C reduction and safety profile are comparable between elderly and young subjects treated with ezetimibe tablets. Therefore, no dosage adjustment is necessary in the elderly.

## **8 ADVERSE REACTIONS**

## 8.1 Adverse Reaction Overview

The most commonly reported adverse events in clinical studies were upper respiratory tract infection, headache, myalgia and back pain. In post-marketing use, serious adverse events reported rarely or very rarely, regardless of causality, included hepatitis, hypersensitivity reactions, pancreatitis and myopathy/rhabdomyolysis.

When ACH-Ezetimibe is to be administered with a statin or fenofibrate, please refer also to the Product Monograph for that medication.

## 8.2 Clinical Trial Adverse Reactions

Clinical trials are conducted under very specific conditions. The adverse reaction rates observed in the clinical trials; therefore, may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials may be useful in identifying and approximating rates of adverse drug reactions in real-world use.

Ezetimibe tablets clinical trial experience involved 2486 patients in placebo-controlled monotherapy trials (1691 treated with ezetimibe tablets) and 4547 patients in active controlled trials (449 of whom were treated with ezetimibe tablets alone and 1708 treated with ezetimibe tablets plus a statin and 185 patients treated with ezetimibe tablets and fenofibrate). The studies were of 8 to 14 weeks duration. The overall incidence of adverse events reported with ezetimibe tablets was similar to that reported with placebo and the discontinuation rates due to treatment related adverse events was similar between ezetimibe tablets (2.3%) and placebo (2.1%).

### Monotherapy

Adverse experiences reported in  $\geq 2\%$  of patients treated with ezetimibe tablets and at an incidence greater than placebo in placebo-controlled studies of ezetimibe tablets, regardless of causality assessment, are shown in [Table 2](#).

**Table 2\* Clinical Adverse Events Occurring in  $\geq 2\%$  of Patients Treated with Ezetimibe Tablets and at an Incidence Greater than Placebo, Regardless of Causality**

Body System/Organ Class Adverse Event	Placebo (%) N=795	Ezetimibe Tablets 10mg (%)n=1691
<b>Body as a whole - general disorders</b> Fatigue	1.8	2.2
<b>Gastrointestinal system disorders</b> Abdominal pain Diarrhea	2.8 3.0	3.0 3.7
<b>Infection and infestations</b> Infection viral Pharyngitis Sinusitis	1.8 2.1 2.8	2.2 2.3 3.6

<b>Musculoskeletal system disorders</b>		
Arthralgia	3.4	3.8
Back pain	3.9	4.1
<b>Respiratory system disorders</b>		
Coughing	2.1	2.3

\* Includes patients who received placebo or ezetimibe tablets alone reported in [Table 2](#).

The frequency of less common adverse events was comparable between ezetimibe tablets and placebo.

Only two patients out of the 1691 patients treated with ezetimibe tablets alone reported serious adverse reactions—one with abdominal pain plus panniculitis, and one with arm pain and palpitation.

In monotherapy placebo-controlled clinical trials, 4% of patients treated with ezetimibe tablets and 3.8% of patients treated with placebo were withdrawn from therapy due to adverse events.

### Combination with a Statin

Ezetimibe tablets have been evaluated for safety in combination studies in more than 2000 patients. In general, adverse experiences were similar between ezetimibe tablets administered with a statin and a statin alone. However, the frequency of increased transaminases was slightly higher in patients receiving ezetimibe tablets administered with a statin than in patients treated with a statin alone (see [7 WARNINGS AND PRECAUTIONS, Hepatic/Biliary/Pancreatic, Patients with Liver Impairment](#)).

Clinical adverse experiences reported in  $\geq 2\%$  of patients and at an incidence greater than placebo in four placebo-controlled trials where ezetimibe tablets were administered alone or initiated concurrently with various statins, regardless of causality assessment, are shown in [Table 3](#).

**Table 3\* Clinical Adverse Events Occurring in  $\geq 2\%$  of Patients and at an Incidence Greater than Placebo, Regardless of Causality, in Ezetimibe Tablets/Statin Combination Studies**

Body System/Organ Class Adverse Event	Placebo (%) n=259	Ezetimibe Tablets 10 mg (%) N=262	All Statins** (%) n=936	Ezetimibe Tablets + All Statins** (%) n=925
<b>Body as a whole - general disorders</b>				
Chest pain	1.2	3.4	2.0	1.8
Dizziness	1.2	2.7	1.4	1.8
Fatigue	1.9	1.9	1.4	2.8
Headache	5.4	8.0	7.3	6.3
<b>Gastrointestinal system disorders</b>				
Abdominal pain	2.3	2.7	3.1	3.5
Diarrhea	1.5	3.4	2.9	2.8
<b>Infection and infestations</b>				
Pharyngitis	1.9	3.1	2.5	2.3
Sinusitis	1.9	4.6	3.6	3.5
Upper respiratory tract infection	10.8	13.0	13.6	11.8

<b>Musculoskeletal system disorders</b>				
Arthralgia	2.3	3.8	4.3	3.4
Back pain	3.5	3.4	3.7	4.3
Myalgia	4.6	5.0	4.1	4.5
* Includes four placebo-controlled combination studies in which ezetimibe tablets were initiated concurrently with a statin.				
** All statins=all doses of all statins.				

In co-administration placebo-controlled clinical trials, 5.7% of patients treated with ezetimibe tablets co-administered with a statin, 4.3% of patients treated with statin alone, 5.0% of patients treated with ezetimibe tablets alone, and 6.2% of patients treated with placebo were withdrawn from therapy due to adverse events.

### **Combination with Fenofibrate**

In a clinical study involving 625 patients treated for up to 12 weeks and 576 patients treated for up to 1 year, co-administration of ezetimibe tablets and fenofibrate was well tolerated. This study was not designed to compare treatment groups for infrequent events. Incidence rates (95% CI) for clinically important elevations (>3 X ULN, consecutive) in serum transaminases were 4.5% (1.9, 8.8) and 2.7% (1.2, 5.4) for fenofibrate monotherapy and ezetimibe tablets co-administered with fenofibrate, respectively, adjusted for treatment exposure. Corresponding incidence rates for cholecystectomy were 0.6% (0.0, 3.1) and 1.7% (0.6, 4.0) for fenofibrate monotherapy and ezetimibe tablets co-administered with fenofibrate, respectively (see [7 WARNINGS AND PRECAUTIONS, Fenofibrate](#) and [9 DRUG INTERACTIONS](#)). There were no CPK elevations >10 X ULN in either treatment group in this study. Abdominal pain was commonly reported.

## **8.3 Less Common Clinical Trial Adverse Reactions**

### **Monotherapy**

The following additional drug-related adverse experiences were reported in patients taking ezetimibe tablets alone (n = 2396) and at a greater incidence than placebo (n = 1159).

Common (incidence  $\geq$ 1% and <10%)

Gastrointestinal Disorders: flatulence

Uncommon (incidence  $\geq$ 0.1% and <1%)

Investigations: ALT and/or AST increased, blood CPK increased; gammaglutamyltransferase increased; liver function test abnormal

Gastrointestinal Disorders: dyspepsia; gastroesophageal reflux disease; nausea

General Disorders: chest pain; pain

Musculoskeletal and Connective Tissue Disorders<sup>1</sup>: muscle spasms; neck pain

Metabolism and Nutrition Disorders: decreased appetite

Vascular Disorders: hot flush; hypertension

### **Combination with a Statin**

The following additional drug-related adverse experiences were reported in patients taking ezetimibe tablets co-administered with a statin (n = 11,308) and at a greater incidence than statin

administered alone (n=9361).

Uncommon (incidence  $\geq 0.1\%$  and  $< 1\%$ )

Gastrointestinal Disorders: dry mouth; gastritis

General Disorders: asthenia; edema peripheral

Musculoskeletal and Connective Tissue Disorders: muscular weakness; pain in extremity

Nervous System Disorders: paresthesia

Skin and Subcutaneous Tissue Disorders: pruritus; rash; urticaria

#### **8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Quantitative Data Clinical Trial Findings**

In controlled clinical monotherapy trials, the incidence of clinically important consecutive elevations in serum transaminases (ALT and/or AST  $\geq 3 \times$  ULN) was similar between ezetimibe tablets (0.5%) and placebo (0.3%). In co-administration trials, the incidence was 1.3% for patients treated with ezetimibe tablets co-administered with a statin and 0.4% for patients treated with a statin alone. These elevations were generally asymptomatic, not associated with cholestasis, and returned to baseline levels after discontinuation of therapy or with continued treatment.

In clinical trials there was no excess of myopathy or rhabdomyolysis associated with ezetimibe tablets compared with the relevant control arm (placebo or statin alone). However, myopathy and rhabdomyolysis are known adverse reactions to statins and other lipid-lowering drugs. In clinical trials, the incidence of CK  $>10 \times$  ULN was 0.2% for ezetimibe tablets vs 0.1% for placebo, and 0.1% for ezetimibe tablets co-administered with a statin vs 0.4% for statin alone.

#### **8.5 Post-Market Adverse Reactions**

The following adverse events have been reported rarely or very rarely, regardless of causality:

- myalgia (see [7 WARNINGS AND PRECAUTIONS](#))
- myopathy/rhabdomyolysis (see [7 WARNINGS AND PRECAUTIONS](#)) drug-induced liver injury, including hepatitis (see [3 SERIOUS WARNINGS AND PRECAUTIONS BOX](#); [7 WARNINGS AND PRECAUTIONS](#))
- hypersensitivity reactions, including anaphylaxis, angioedema, rash and urticaria
- erythema multiforme
- pancreatitis (see [7 WARNINGS AND PRECAUTIONS](#))
- thrombocytopenia
- cholelithiasis
- cholecystitis
- depression
- constipation
- severe cutaneous adverse reactions (SCARs), including Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN), drug reaction with eosinophilic and systemic symptoms (DRESS) (see [3 SERIOUS WARNINGS AND PRECAUTIONS BOX](#); [7 WARNINGS AND PRECAUTIONS](#))

## 9 DRUG INTERACTIONS

### 9.1 Serious Drug Interactions

#### Serious Drug Interactions

- Concomitant treatment with cyclosporine (see [9.4 Drug-Drug Interactions](#))

### 9.2 Drug Interactions Overview

Drug-drug interactions are known or suspected with cholestyramine, cyclosporine and fibrates.

### 9.4 Drug-Drug Interactions

The drugs listed in this table are based on either drug interaction case reports or studies, or potential interactions due to the expected magnitude and seriousness of the interaction (i.e., those identified as contraindicated).

**Table 4 - Established or Potential Drug-Drug Interactions**

[Proper/Common name]	Effect	Clinical comment
Cytochrome P450 System	Ezetimibe neither induces, nor inhibits, these cytochrome P450 isoenzymes.	No clinically significant pharmacokinetic interactions have been observed between ezetimibe and drugs known to be metabolized via CYP 1A2, 2D6, 2C8, 2C9, and 3A4 isoenzymes, or N-acetyltransferase such as caffeine, dextromethorphan, tolbutamide, and IV midazolam.
Anticoagulants	-	Concomitant administration of ezetimibe (10 mg once daily) had no significant effect on bioavailability of warfarin and prothrombin time in a study of twelve healthy adult males. As with the initiation of any medication in patients treated with warfarin or another coumarin anticoagulant, additional International Normalised Ratio (INR) measurements are recommended for patients administered warfarin or another coumarin anticoagulant concomitantly with ACH-Ezetimibe.
Digoxin	-	Concomitant administration of ezetimibe (10 mg once daily) had no significant effect on the bioavailability of digoxin and the ECG parameters (HR, PR, QT, and QTc intervals) in a study of twelve healthy adult males.
Oral Contraceptives	-	Co-administration of ezetimibe (10 mg once daily) with oral contraceptives had no significant effect on the bioavailability of ethinyl estradiol or levonorgestrel in a study of eighteen healthy adult females.
Cimetidine	-	Multiple doses of cimetidine (400 mg twice daily) had no significant effect on the oral bioavailability of ezetimibe and total ezetimibe in a study of twelve healthy adults.
Antacids		Concomitant antacid (aluminum and magnesium hydroxide) administration decreased the rate of absorption of ezetimibe but had no effect on the bioavailability of ezetimibe. This decreased rate of absorption is not considered clinically significant.

Glipizide	A single dose of glipizide (10 mg) had no significant effect on the exposure to total ezetimibe or ezetimibe.	In a study of twelve healthy adult males, steady-state levels of ezetimibe (10 mg once daily) had no significant effect on the pharmacokinetics and pharmacodynamics of glipizide.
Cholestyramine or any other bile acid sequestrant	The incremental LDL-C reduction due to adding ezetimibe to cholestyramine may be lessened by this interaction.	<p>Concomitant cholestyramine administration decreased the mean AUC of total ezetimibe (ezetimibe + ezetimibe-glucuronide) approximately 55%.</p> <p>When ACH-Ezetimibe is used concurrently with cholestyramine or any other bile acid sequestrant, an interval of at least 2 hours before or 4 hours after should be maintained between the two drugs as the absorption of ACH-Ezetimibe may be impaired.</p>
Fibrates	Fibrates may increase cholesterol excretion into the bile, leading to cholelithiasis	<p>The safety and effectiveness of ezetimibe co-administered with fenofibrate have been evaluated in a clinical study (see <a href="#">7 WARNINGS AND PRECAUTIONS</a>; <a href="#">8 ADVERSE REACTIONS</a> and <a href="#">14 CLINICAL TRIALS, Co-administration with Fenofibrate</a>); co-administration of ezetimibe with other fibrates has not been studied. Fibrates may increase cholesterol excretion into the bile, leading to cholelithiasis.</p> <p>In a preclinical study in dogs, ezetimibe increased cholesterol in the gallbladder bile. Although the relevance of this preclinical finding to humans is unknown, co-administration of ACH-Ezetimibe with fibrates (other than fenofibrate) is not recommended until use in patients is studied.</p> <ul style="list-style-type: none"> <li>• Fenofibrate: In a pharmacokinetic study, concomitant fenofibrate administration increased total ezetimibe concentrations approximately 1.5-fold. This increase is not considered clinically significant.</li> <li>• Gemfibrozil: In a pharmacokinetic study, concomitant gemfibrozil administration increased total ezetimibe concentrations approximately 1.7-fold. This increase is not considered clinically significant. No clinical data are available.</li> </ul>



Statins	-	No clinically significant pharmacokinetic interactions were seen when ezetimibe was co-administered with atorvastatin, simvastatin, pravastatin, lovastatin, fluvastatin or rosuvastatin.
Cyclosporine	-	<p>Caution should be exercised when initiating ezetimibe in the setting of cyclosporine. Cyclosporine concentrations should be monitored in patients receiving ACH-Ezetimibe and cyclosporine.</p> <p>In a study of eight post-renal transplant patients with creatinine clearance of &gt;50 mL/min on a stable dose of cyclosporine, a single 10 mg dose of ezetimibe resulted in a 3.4-fold (range 2.3- to 7.9-fold) increase in the mean AUC for total ezetimibe compared to a healthy control population from another study (n=17). In a different study, a renal transplant patient with severe renal insufficiency (creatinine clearance of 13.2 mL/min/1.73 m<sup>2</sup>) who was receiving multiple medications, including cyclosporine, demonstrated a 12-fold greater exposure to total ezetimibe compared to concurrent controls.</p> <p>In contrast, in a two-period crossover study in twelve healthy subjects, daily administration of 20 mg ezetimibe for 8 days with a single 100-mg dose of cyclosporine on Day 7 resulted in a mean 15% increase in cyclosporine AUC (range 10% decrease to 51% increase) compared to a single 100-mg dose of cyclosporine alone.</p>

### 9.5 Drug-Food Interactions

Interactions with food have not been established.

### 9.6 Drug-Herb Interactions

Interactions with herbal products have not been established.

### 9.7 Drug-Laboratory Test Interactions

Interactions with laboratory tests have not been established.

## 10 CLINICAL PHARMACOLOGY

### 10.1 Mechanism of Action

Ezetimibe tablets are in a new class of lipid-lowering compounds that selectively inhibit the intestinal absorption of cholesterol and related plant sterols. Ezetimibe tablets are orally active, with a unique mechanism of action that differs from other classes of cholesterol-reducing compounds e.g., HMG-CoA reductase inhibitors (statins), bile acid sequestrants (resins), fibric acid

derivatives, plant stanols. The molecular target of ezetimibe is the sterol transporter, Niemann-Pick C1-Like 1 (NPC1L1), which is responsible for the intestinal uptake of cholesterol and phytosterols. Although ezetimibe is rapidly absorbed and is extensively metabolized to an active phenolic glucuronide which reaches the systemic circulation after oral administration (see [10 ACTION AND CLINICAL PHARMACOLOGY, 10.3 Pharmacokinetics, Absorption](#)), its action is localized at the brush border of the small intestine where it inhibits the absorption of cholesterol, leading to a decrease in the delivery of intestinal cholesterol to the liver. This results in a reduction of hepatic cholesterol stores and an increase in clearance of cholesterol from the blood. Ezetimibe does not increase bile acid excretion in contrast to bile acid sequestrants and does not inhibit cholesterol synthesis in the liver as do statins. Ezetimibe tablets and statins have distinct mechanisms of action that provide complementary cholesterol reduction. Administration of ezetimibe tablets with fenofibrate is effective in improving serum total-C, LDL-C, Apo B, TG, HDL-C, and non-HDL-C in patients with mixed hyperlipidemia.

Clinical studies have demonstrated that elevated levels of total-C, low density lipoprotein cholesterol (LDL-C) and apolipoprotein B (Apo B; the major protein constituent of LDL), promote atherosclerosis in humans. In addition, decreased levels of high density lipoprotein cholesterol (HDL-C) are associated with the development of atherosclerosis. Epidemiologic studies have established that cardiovascular morbidity and mortality vary directly with the level of total-C and LDL-C and inversely with the level of HDL-C. Like LDL, cholesterol-enriched triglyceride-rich lipoproteins, including very low density lipoproteins (VLDL), intermediate density lipoproteins (IDL), and remnants, can also promote atherosclerosis. The effects of ezetimibe given either alone or in addition to a statin or fenofibrate on cardiovascular morbidity and mortality have not been established.

## 10.2 Pharmacodynamics

Preclinical studies in animals were performed to determine the selectivity of ezetimibe for inhibiting cholesterol absorption. Ezetimibe inhibited the absorption of [ $^{14}$ C]-cholesterol with no effect on the absorption of triglycerides, fatty acids, bile acids, progesterone, ethinyl estradiol, or the fat soluble vitamins A and D.

In a study of hypercholesterolemic patients, ezetimibe tablets inhibited intestinal cholesterol absorption by 54%, compared with placebo. Ezetimibe tablets had no clinically meaningful effect on the plasma concentrations of the fat-soluble vitamins A, D, and E, and did not impair adrenocortical steroid hormone production.

## 10.3 Pharmacokinetics

### Absorption

After oral administration, ezetimibe is rapidly absorbed and extensively conjugated to a phenolic glucuronide (ezetimibe-glucuronide) form which is at least as pharmacologically active as the parent drug. Mean ezetimibe peak plasma concentrations ( $C_{max}$ ) of 3.4 to 5.5 ng/mL were attained within 4 to 12 hours ( $T_{max}$ ). Ezetimibe-glucuronide mean  $C_{max}$  values of 45 to 71 ng/mL were achieved between 1 and 2 hours ( $T_{max}$ ). The extent of absorption and absolute bioavailability of ezetimibe cannot be determined as the compound is virtually insoluble in aqueous media suitable for injection.

Concomitant food administration (high fat or non-fat meals) had no effect on the extent of absorption of ezetimibe when administered as ezetimibe 10 mg tablets.  $C_{max}$  of ezetimibe was

increased by 38% when taken with high fat meals.

### **Distribution**

Ezetimibe and ezetimibe-glucuronide are bound 99.7% and 88 to 92% to human plasma proteins, respectively.

### **Metabolism**

Ezetimibe is metabolized primarily in the small intestine and liver via glucuronide conjugation (a phase II reaction) with subsequent biliary and renal excretion. Minimal oxidative metabolism (a phase I reaction) has been observed in all species evaluated. Ezetimibe and ezetimibe-glucuronide are the major compounds detected in plasma. The conjugated ezetimibe-glucuronide constitutes 80-90% of plasma drug levels with ezetimibe the remaining 10-20%. Both ezetimibe and ezetimibe-glucuronide are slowly eliminated from plasma with evidence of significant enterohepatic recycling. The half-life for ezetimibe and ezetimibe-glucuronide is approximately 22 hours.

### **Elimination**

Following oral administration of <sup>14</sup>C-ezetimibe (20 mg) to human subjects, total ezetimibe (ezetimibe + ezetimibe-glucuronide) accounted for approximately 93% of the total radioactivity in plasma. Approximately 78% and 11% of the administered radioactivity were recovered in the faeces and urine, respectively, over a 10-day collection period. After 48 hours, there were no detectable levels of radioactivity in the plasma. Ezetimibe was the major component in faeces (69% of the administered dose) while ezetimibe-glucuronide was the major component in urine and accounted for 9% of the administered dose.

## **11 STORAGE, STABILITY AND DISPOSAL**

Store between 15°C and 30°C. Protect from moisture.

## **12 SPECIAL HANDLING INSTRUCTIONS**

There are no special requirements for use or handling of this product.

## PART II: SCIENTIFIC INFORMATION

### 13 PHARMACEUTICAL INFORMATION

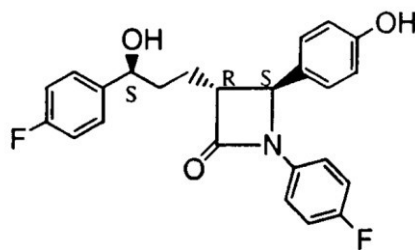
#### Drug Substance

Proper name: ezetimibe

Chemical name: 1-(4-fluorophenyl)-3(R)-[3-(4-fluorophenyl)-3(S)-hydroxypropyl]-4(S)-(4-hydroxyphenyl)-2-azetidinone

Molecular formula and molecular mass: C<sub>24</sub>H<sub>21</sub>F<sub>2</sub>NO<sub>3</sub>, 409.4 g/mol

Structural formula:



Physicochemical properties: Physical form: White powder

Solubility:

Solvent	Solubility (mg/mL) Ambient temperature (about 23°C)	
	Ezetimibe anhydrous	Ezetimibe hydrate
Water	0.012	0.008
0.1 N HCl	0.011	0.024
n-hexane	<0.001	<0.001
Acetonitrile	68.6	77.8
Ethanol (USP)	168	169
Ethanol: 0.1N HCl (1:1)	1.7	1.8
pH 4.5 phosphate buffer (0.05M) with 1% sodium lauryl sulfate	0.16	0.16

pH 4.5 acetate buffer (0.05M) with 0.45% sodium lauryl sulfate	0.054	not determined
Methanol	>200	not determined
Acetone	>200	not determined
DMSO	>200	not determined

pKa: 9.75 (potentiometric titration)  
9.66 (theoretical)

Partition coefficient:

n-octanol/0.1N HCl                      Log  $K_{O/W}$ =4.52  
n-octanol/pH 7 buffer                      Log  $K_{O/W}$ =4.51  
( $K_{O/W}$  =  $K_{organic\ phase/water\ phase}$ )

Melting Point:

Anhydrous form:      melts at 163°C (onset)  
Hydrate form:              loss of water at 25-70°C; melts at 163°C (onset)

## 14 CLINICAL TRIALS

### 14.1 Clinical Trials by Indication

#### Primary Hypercholesterolemia

ACH-Ezetimibe (ezetimibe tablets) has been shown to be effective in reducing total-C, LDL-C, Apo B, and TG and increasing HDL-C in patients with primary hypercholesterolemia. Maximal to near maximal response is generally achieved within 2 weeks and maintained during chronic therapy.

Ezetimibe tablets are effective in a variety of patient populations with hypercholesterolemia, in men and women, and in the elderly, administered alone or with a statin.

#### Monotherapy

**Table 5 - Summary of patient demographics for clinical trials in patients with primary hypercholesterolemia**

Study design	Dosage, route of administration and duration	Study subjects (n)	Mean age (Range)	Sex
Double-blind, placebo-controlled studies	12 weeks duration in patients with primary hypercholesterolemia	1719	58 years	48 % male

In two double-blind, placebo-controlled studies of 12 weeks duration in patients with primary

hypercholesterolemia, ezetimibe tablets significantly lowered total-C, LDL-C, Apo B, and TG and increased HDL-C compared with placebo. The studies enrolled 1719 patients (ezetimibe tablets =1288, placebo=431) with an LDL-C  $\geq$  130 mg/dL (3.37 mmol/L) and  $\leq$  250 mg/dL (6.48 mmol/L), and with a TG  $\leq$  350 mg/dL (3.96 mmol/L). In general, the groups were balanced with regard to body weight, sex, age, race and baseline lipid levels; at entry into the study the mean LDL-C was 165 mg/dL (4.27 mmol/L) while the mean age was 58 years and 48% were male.

**Table 6 - Mean Response to Ezetimibe Tablets in Patients with Primary Hypercholesterolemia (Mean % Change from Baseline)**

	Treatment Group	N	Total-C	LDL-C	Apo B	TG <sup>a</sup>	HDL-C
<b>Study 1</b>	<b>Placebo</b>	205	+1	+1	-1	-1	-1
	<b>Ezetimibe Tablets</b>	622	-12	-18	-15	-7	+1
<b>Study 2</b>	<b>Placebo</b>	226	+1	+1	-1	+2	-2
	<b>Ezetimibe Tablets</b>	666	-12	-18	-16	-9	+1
<sup>a</sup> Median % change from baseline							

Reductions in LDL-C were consistent across age, sex, race, and baseline LDL-C (see Table 6). In addition, ezetimibe tablets had no effect on the plasma concentrations of the fat-soluble vitamins A, D, and E, or on prothrombin time, and did not impair adrenocortical steroid hormone production.

In two, 12 week ezetimibe monotherapy studies which included 1288 patients treated with ezetimibe and 431 treated with placebo, the safety profile of ezetimibe was similar to that of placebo. There was no difference in the incidence of clinically important liver function or muscle adverse experiences between the groups.

### Co-Administration with a Statin

#### Ezetimibe Tablets Initiated Concurrently with a Statin:

**Table 7 - Summary of patient demographics for clinical trials in patients with primary hypercholesterolemia, ezetimibe tablets co-administered with a statin**

Study design	Dosage, route of administration and duration	Study subjects (n)	Mean age (Range)	Sex
Four double-blind, placebo-controlled studies	Patients with primary hypercholesterolemia, ezetimibe co-administered with a statin	2382	57 years	43% male

In four double-blind, placebo-controlled studies in patients with primary hypercholesterolemia, ezetimibe tablets co-administered with a statin significantly lowered total-C, LDL-C, Apo B and TG and increased HDL-C compared with a statin alone. The studies enrolled 2382 patients (Ezetimibe tablets alone=262, placebo=259, ezetimibe tablets co-administered with a statin=925, statin alone=936) with an LDL-C  $\geq$  145

mg/dL (3.76 mmol/L) and  $\leq$  250 mg/dL (6.48 mmol/L) and with TG  $\leq$  350 mg/dL (3.96 mmol/L). In general, the groups were balanced with regard to body weight, sex, age, race and baseline lipids; at entry into the study the mean LDL-C was 179 mg/dL (4.64 mmol/L) while the mean age was 57 years and 43% were male.

In general, the incremental effect on LDL-C reduction was independent of the dose or specific statin used. In addition, LDL-C reduction for ezetimibe tablets co-administered with the lowest tested dose (10 mg) of any of the statins was similar to or greater than the LDL-C reduction of the highest tested dose of the corresponding statin administered alone ([Table 8](#)).

**Table 8 - Mean % Change from Baseline in Plasma Concentration of Calculated LDL-C for Ezetimibe Tablets Administered with Statins**

	<b>Atorvastatin Study</b>	<b>Simvastatin Study</b>	<b>Pravastatin Study</b>	<b>Lovastatin Study</b>
<b>Placebo</b>	+4	-1	-1	0
<b>Ezetimibe Tablets</b>	-20	-19	-20	-19
<b>10 mg statin</b>	-37	-27	-21	-20
<b>Ezetimibe Tablets + 10 mg statin</b>	-53	-46	-34	-34
<b>20 mg statin</b>	-42	-36	-23	-26
<b>Ezetimibe Tablets + 20 mg statin</b>	-54	-46	-40	-41
<b>40 mg statin</b>	-45	-38	-31	-30
<b>Ezetimibe Tablets + 40 mg statin</b>	-56	-56	-42	-46
<b>80 mg statin</b>	-54	-45	-	-
<b>Ezetimibe Tablets + 80 mg statin</b>	-61	-58	-	-

In addition, ezetimibe tablets had a beneficial effect on total-C, Apo B, TG, and HDL C.

In the 4 ezetimibe and statin factorial studies performed with lovastatin, pravastatin, simvastatin and atorvastatin, 925 patients received ezetimibe co-administered with statins and 936 received statin alone. Overall, the co-administration of ezetimibe and statin was well tolerated. There was no difference in the incidence of clinically important muscle adverse experiences. There was small excess of liver function elevations in the co-administration group compared to statins alone: 1.3% vs 0.4% respectively.

## Ezetimibe Tablets Added to On-going Statin Therapy:

**Table 9 – Summary of patient demographics for clinical trials in patients with primary hypercholesterolemia, ezetimibe tablets added to on-going statin therapy**

Study design	Dosage, route of administration and duration	Study subjects (n)	Mean age (Range)	Sex
Double-blind, placebo-controlled study	8 weeks duration in patients with primary hypercholesterolemia, with known coronary artery disease or multiple cardiovascular risk factors not controlled by existing statin therapy	769	60 years	58% male

In a single double-blind, placebo-controlled study of 8 weeks duration in patients with primary hypercholesterolemia, with known coronary artery disease or multiple cardiovascular risk factors not controlled by existing statin therapy (i.e., LDL-C exceeded NCEP ATP II defined targets), the addition of ezetimibe tablets to a statin further reduced LDL-C by 25% (vs 4% for statin alone) and brought significantly more patients to their LDL-C goal than the statin alone (72% vs 19%). The study enrolled 769 patients (ezetimibe tablets co-administered with a statin=379, statin alone=390). In general, the groups were balanced with regard to body weight, sex, age, race and baseline lipids; at entry into the study the mean LDL-C was 139 mg/dL (3.60 mmol/L) while the mean age was 60 years and 58% were male.

## Co-administration with Fenofibrate

**Table 10 - Summary of patient demographics for clinical trials in patients with mixed hyperlipidemia, ezetimibe tablets co-administered with Fenofibrate**

Study design	Dosage, route of administration and duration	subjects (n)	Mean age (Range)	Sex
Multicenter, double-blind, placebo-controlled, clinical study	Patients randomized to receive placebo, Ezetimibe tablets alone, 160 mg fenofibrate alone, or Ezetimibe tablets and 160 mg fenofibrate	625 (treated for up to 12 weeks) 576 (treated for up to 1 year)	54 years	56% male

In a multicenter, double-blind, placebo-controlled, clinical study in patients with mixed hyperlipidemia, 625 patients were treated for up to 12 weeks and 576 for up to 1 year. Patients with an LDL-C  $\geq$  130 mg/dL (3.37 mmol/L) and  $\leq$  220 mg/dL (5.70 mmol/L) (for non-diabetics) or  $\geq$  100 mg/dL (2.59 mmol/L) and  $\leq$  180 mg/dL (4.66 mmol/L) (for diabetics), and with TG  $\geq$  200 mg/dL (2.26 mmol/L) and  $\leq$  500 mg/dL (5.65 mmol/L) were randomized to receive placebo, ezetimibe tablets alone, 160 mg fenofibrate alone, or ezetimibe tablets and



160 mg fenofibrate. In general, the groups were balanced with regard to body weight, sex, age, race and baseline lipids; at entry into the study the mean LDL-C was 161 mg/dL (4.17 mmol/L) while the mean age was 54 years and 56% were male.

**Table 11 - Response to Ezetimibe Tablets and Fenofibrate Initiated Concurrently in Patients with Mixed Hyperlipidemia (Mean<sup>a</sup>% Change from Untreated Baseline<sup>b</sup> at 12 weeks)**

Treatment (Daily Dose)	N	Total-C	LDL-C	Apo B	TG <sup>a</sup>	HDL-C	Non-HDL-C
Placebo	63	0	0	-1	-9	+3	0
Ezetimibe Tablets	185	-12	-13	-11	-11	+4	-15
Fenofibrate 160 mg	188	-11	-6	-15	-43	+19	-16
Ezetimibe Tablets + Fenofibrate 160 mg	183	-22	-20	-26	-44	+19	-30
<sup>a</sup> For triglycerides, median % change from baseline							
<sup>b</sup> Baseline - on no lipid-lowering drug							

Ezetimibe tablets co-administered with fenofibrate significantly lowered total-C, LDL-C, Apo B, and non-HDL-C compared to fenofibrate administered alone. The percent decrease in TG and percent increase in HDL -C for ezetimibe tablets co-administered with fenofibrate were comparable to those for fenofibrate administered alone (see [Table 11](#)).

Improvements in lipid endpoints after 1 year of treatment were consistent with the 12 week data displayed above.

### Homozygous Familial Hypercholesterolemia (HoFH)

**Table 12 - Summary of patient demographics for clinical trials in patients with Homozygous Familial Hypercholesterolemia (HoFH)**

Study design	Dosage, route of administration and duration	Study subjects (n)	Mean age (Range)	Sex
Double-blind, randomized study	12 weeks Ezetimibe tablets administered with atorvastatin or simvastatin (40 mg) or Ezetimibe tablets administered with atorvastatin or simvastatin	50	32 years	42% male

A study was conducted to assess the efficacy of ezetimibe tablets in the treatment of HoFH. This double-blind, randomized, 12-week study enrolled 50 patients with a clinical and/or genotypic diagnosis of HoFH, with or without concomitant LDL apheresis. Patients were already receiving atorvastatin or simvastatin (40 mg) at entry, had LDL-C  $\geq$  100 mg/dL (2.59 mmol/L), and were randomized to one of three treatment groups: atorvastatin or simvastatin (80 mg; n=17), ezetimibe tablets administered with atorvastatin or simvastatin (40

mg) or ezetimibe tablets administered with atorvastatin or simvastatin (80 mg; n=33). In general, the groups were well balanced with regard to body weight, sex, age, race and baseline lipids; at entry into the study the mean LDL-C was 332 mg/dL (8.60 mmol/L), the mean age was 32 years and 42% were male.

**Table 13 - Mean Response to Ezetimibe Tablets in Patients with HoFH (Mean % Change from Baseline)**

Treatment (Daily Dose)	N	LDL-C
Atorvastatin (80 mg) or simvastatin (80 mg)	17	-7
Ezetimibe tablets + atorvastatin (40 mg or 80 mg) or simvastatin (40 mg or 80 mg)	33	-21
Sub-group analysis: Ezetimibe tablets + atorvastatin (80 mg) or simvastatin (80 mg)	17	-27

Ezetimibe tablets, administered with atorvastatin (40 mg or 80 mg) or simvastatin (40 mg or 80 mg), significantly reduced LDL-C compared with increasing the dose of simvastatin or atorvastatin monotherapy from 40 mg to 80 mg.

#### **Homozygous Sitosterolemia (Phytosterolemia)**

**Table 14 - Summary of patient demographics for clinical trials in the treatment of homozygous sitosterolemia**

Study design	Dosage, route of administration and duration	Study subjects (n)	Mean age (Range)	Sex
Multicenter, double-blind, placebo-controlled study	8-weeks duration	37	37 years	35% male

A study was conducted to assess the efficacy of ezetimibe tablets as adjunctive therapy in the treatment of homozygous sitosterolemia. This multicenter, double-blind, placebo-controlled, study of 8-weeks duration enrolled 37 patients (ezetimibe tablets=30, placebo=7)  $\geq 10$  years of age with sitosterol  $>5$  mg/dL (0.1 mmol/L). In general, the groups were well balanced with regard to body weight, sex, age, race and baseline lipids; at entry into the study the mean sitosterol was 20 mg/dL (0.5 mmol/L), the mean age was 37 years and 35% were male.

Ezetimibe tablets significantly lowered the two major plant sterols, sitosterol and campesterol, by 21% and 24% from baseline, respectively. In contrast, patients who received placebo had increases in sitosterol and campesterol of 4% and 3% from baseline, respectively. For patients treated with ezetimibe tablets, the reduction in plant sterols was progressive over the course of the study.

Reductions in sitosterol and campesterol were consistent between patients taking ezetimibe tablets concomitantly with bile acid sequestrants (n=8) and patients not on concomitant bile acid sequestrant therapy (n=21).

### 14.3 Comparative Bioavailability Studies

A randomized, two-way, single-dose, crossover comparative bioavailability study of ACH-EZETIMIBE 10 mg tablets (Accord Healthcare Inc.) and <sup>Pr</sup>EZETROL<sup>®</sup> 10 mg tablets (Merck Canada Inc.) was conducted in healthy, adult, male subjects under fasting conditions. Comparative bioavailability data from 39 subjects that were included in the statistical analysis are presented in the following table:

**SUMMARY TABLE OF THE COMPARATIVE BIOAVAILABILITY DATA**

Ezetimibe (1 x 10 mg) Geometric Mean Arithmetic Mean (CV %)				
Parameter	Test <sup>1</sup>	Reference <sup>2</sup>	% Ratio of Geometric Means	90% Confidence Interval
AUC <sub>T</sub> (ng·h/mL)	64.94 69.78 (38.8)	63.30 69.01 (42.1)	102.6	96.8 – 108.7
AUC <sub>I</sub> (ng·h/mL)	69.28 74.73 (39.3) <sup>3</sup>	68.46 73.34 (36.0) <sup>4</sup>	101.2	95.6 – 107.1
C <sub>max</sub> (ng/mL)	3.80 4.46 (75.5)	4.35 5.13 (68.1)	87.3	79.4 – 95.8
T <sub>max</sub> <sup>5</sup> (h)	5.00 (3.50 – 14.00)	5.00 (0.50 – 16.00)		
T <sub>½</sub> <sup>6</sup> (h)	12.67 (41.9) <sup>3</sup>	12.19 (44.8) <sup>4</sup>		

<sup>1</sup> ACH-EZETIMIBE (ezetimibe) tablets, 10 mg (Accord Healthcare Inc.)

<sup>2</sup> <sup>Pr</sup>EZETROL<sup>®</sup> (ezetimibe) tablets, 10 mg (Merck Canada Inc.)

<sup>3</sup> n=37

<sup>4</sup> n=33

<sup>5</sup> Expressed as the median (range) only

<sup>6</sup> Expressed as the arithmetic mean (CV %) only

### 15 MICROBIOLOGY

No microbiological information is required for this drug product.

### 16 NON-CLINICAL TOXICOLOGY

#### Genera3-24 Toxicology:

##### Acute Toxicity

The acute toxicity of ezetimibe following single doses was evaluated in mice, rats, and dogs.

**Table 15 - Ezetimibe LD<sub>50</sub> Values**

Species	Sex	Route	Estimated LD <sub>50</sub> Value
Mouse	Male/Female	PO	>5000
Mouse	Male/Female	IP	>1000 LD <sub>50</sub> <2000
Rat	Male/Female	PO	>5000

Rat	Male/Female	IP	>2000
Dog	Male/Female	PO	>3000
PO=orally; IP=intraperitoneally			

In animals, no toxicity was observed after single oral doses of 5000 mg/kg of ezetimibe in rats and mice and 3000 mg/kg in dogs.

Ezetimibe (1000 mg/kg) was co-administered with either simvastatin (1000 mg/kg) or lovastatin (1000 mg/kg) by oral gavage to mice and rats. All animals survived. There were no clinical observations of toxicity and no effects on body weight parameters. The estimated oral LD50 for both species was >1000 mg/kg of each co-administered agent.

#### Chronic Toxicity (ezetimibe alone)

Ezetimibe was well tolerated by mice, rats and dogs. No target organs of toxicity were identified in chronic studies at daily doses up to 1500 and 500 mg/kg in male and female rats, respectively, up to 500 mg/kg in mice, or up to 300 mg/kg in dogs.

#### Subchronic Toxicity (Ezetimibe/Statin Co-administration)

The safety of concomitant administration of ezetimibe and statins was assessed in rats and dogs in multiple dose toxicity studies ranging from 2 weeks to 3 months in duration. Target organs identified in these studies are summarized in the following table.

**Table 16 - Target Organs Affected in Animal Co-administered Ezetimibe and Statins<sup>a</sup>**

Rat	Dog
Liver <sup>b</sup> :increased weight, hepatocellular vacuolation, hepatocellular hypertrophy, foci of cellular alteration, bile duct hyperplasia, increased liver-related serum enzymes	Liver <sup>b</sup> : decreased weight, bile duct hyperplasia, increased liver-related serum enzymes
Skeletal Muscle <sup>b</sup> : myofiber degeneration/regeneration, mixed cellular infiltration	Testes <sup>b</sup> : spermatic aggregates, spermatogenic alteration, luminal cellular debris
Stomach (nonglandular) <sup>b</sup> : hyperkeratosis, acanthosis, mixed cellular infiltration	
<sup>a</sup> Ezetimibe was co-administered with simvastatin, lovastatin, pravastatin or atorvastatin.	
<sup>b</sup> Known target organ of statins.	

When ezetimibe was co-administered with statins (specifically atorvastatin, simvastatin, pravastatin or lovastatin) toxicologic findings were consistent with those seen with statins administered alone. Co-administration of ezetimibe and statins did not result in any new toxicities.

Myopathy in rats was attributed to a toxicokinetic interaction resulting in increased systemic exposure to the statin (1.5- to 15.1 -fold) and/or its pharmacologically active metabolite (2.4- to 11.2 -fold) compared to the statin control. Similar alterations in plasma drug levels are not seen at lower doses (~10-20 times human exposure to total ezetimibe), and no myopathy in rats is seen under these conditions. Thus, ezetimibe does not increase the sensitivity of rats to statin- induced myopathy in the absence of a toxicokinetic interaction.

Co-administration of ezetimibe and statins to dogs was associated with marked (100x) increases in serum ALT activity. However, there was no evidence of necrosis in liver or skeletal muscle. Upon cessation of dosing, ALT values approached or returned to baseline within one month. Increases in ALT were attenuated by mevalonate, the product of HMG-CoA reductase, demonstrating that these increases were related to inhibition of the reductase. While the source of the ALT has not been identified, these changes in dogs were not indicative of drug-induced organ toxicity, based on the lack of any functional or morphologic changes in the liver that would typically be associated with transaminase increases of this magnitude.

Findings potentially relevant to the safety of concomitant administration of ezetimibe tablets and statin in humans (i.e., hepatotoxicity, myopathy, and testicular degeneration) are similar to those of HMG-CoA reductase inhibitors administered alone.

### **Carcinogenicity:**

In two-year studies conducted in mice and rats, ezetimibe was not carcinogenic. A 104-week oral carcinogenicity study with ezetimibe was conducted in mice at doses up to 500 mg/kg (>150 times the human exposure at 10 mg daily based on AUC<sub>0-24hr</sub> for total ezetimibe). A 104-week oral carcinogenicity study with ezetimibe was conducted in rats at doses up to 1500 mg/kg (males) and 500 mg/kg (females) (~14 and ~17 times the human exposure at 10 mg daily based on AUC<sub>0-</sub>

24hr for total ezetimibe). There were no statistically significant increases in tumor incidences in drug-treated rats or mice.

### **Mutagenicity:**

No evidence of mutagenicity was observed *in vitro* in a microbial mutagenicity (Ames) test with *salmonella typhimurium* and *escherichia coli* with or without metabolic activation. No evidence of clastogenicity was observed *in vitro* in a chromosomal aberration assay in human peripheral blood lymphocytes with or without metabolic activation. In addition, there was no evidence of genotoxicity in the *in vivo* mouse micronucleus test.

Combinations of ezetimibe and statins were not mutagenic (with or without metabolic activation), did not induce chromosome aberration (with or without exogenous metabolic activation) and did not induce an increase in micronuclei in mouse bone marrow polychromatic erythrocytes.

### **Reproductive and Developmental Toxicology:**

In oral (gavage) fertility studies of ezetimibe conducted in rats, there was no evidence of reproductive toxicity at doses up to 1000 mg/kg/day in male or female rats (~1181 [males] times the human dose at 10 mg daily based on surface area and ~7 [females] times the human exposure at 10 mg daily based on AUC<sub>0-24hr</sub> for total ezetimibe). Ezetimibe, at doses up to 1000 mg/kg (the highest feasible dose), was not maternotoxic in embryo-fetal development studies in rats and rabbits.

Ezetimibe was not teratogenic in rats or rabbits and had no effect on prenatal or postnatal development. When ezetimibe was given with lovastatin, simvastatin, pravastatin or atorvastatin, no teratogenic effects were observed in embryo-fetal development studies in pregnant rats. In pregnant rabbits, a low incidence of skeletal malformations (fused sternbrae, fused caudal vertebrae, reduced number of caudal vertebrae) was observed when ezetimibe (1000 mg/kg; ≥ 146 times the human exposure at 10 mg daily based on AUC<sub>0-24hr</sub> for total ezetimibe) was administered with lovastatin (2.5 and 25 mg/kg), simvastatin (5 and 10 mg/kg), pravastatin (25 and 50 mg/kg), or atorvastatin (5, 25, and 50 mg/kg). Exposure to the pharmacologically active form of the statin ranged from 1.4 (atorvastatin) to 547 (lovastatin) times the human exposure at 10 mg daily (simvastatin or atorvastatin) or 20 mg daily (lovastatin and pravastatin) based on AUC<sub>0-24hr</sub>.

## 17 SUPPORTING PRODUCT MONOGRAPHS

1. Ezetrol<sup>®</sup> (Tablets, 10 mg), submission control 278401, Product Monograph, Organon Canada Inc. (JAN 16, 2024).

## PATIENT MEDICATION INFORMATION

### READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE

#### **PrACH-Ezetimibe Ezetimibe Tablets**

Read this carefully before you start taking **ACH-Ezetimibe** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **ACH-Ezetimibe**.

#### **Serious Warnings and Precautions**

**ACH-Ezetimibe can cause serious side effects including:**

- **Liver problems such as Drug induced liver injury and hepatitis**
- **Pancreatitis (inflammation of the pancreas)**
- **Serious muscle problems (myopathy, rhabdomyolysis and myalgia).** If you/your child have previously taken a statin and had persistent or severe muscle pain with no obvious cause, your healthcare professional may monitor you/your child for signs of serious muscle problems.
- **Severe allergic reactions**
- **Serious skin reactions including Stevens-Johnson Syndrome (SJS), Toxic Epidermal Necrolysis (TEN), Drug reaction with eosinophilic and systemic symptoms (DRESS)**

See the “**Serious side effects and what to do about them**” table, below, for more information on these and other serious side effects.

#### **What is ACH-Ezetimibe used for?**

ACH-Ezetimibe is used along with a change in diet and lifestyle to lower the level of cholesterol and other fats (such as triglycerides) in the blood of children (10 years of age and older) and adults. In these children and adults, diet and other lifestyle changes alone were not effective in lowering their cholesterol.

ACH-Ezetimibe may be used alone or with other cholesterol lowering medicines called statins or fenofibrate.

#### **How does ACH-Ezetimibe work?**

ACH-Ezetimibe belongs to a group of medicines called cholesterol absorption inhibitors. It works by lowering the amount of cholesterol that is absorbed in the small intestine.

#### **What are the ingredients in ACH-Ezetimibe?**

Medicinal ingredient: Ezetimibe

Non-medicinal ingredients: Croscarmellose sodium, lactose monohydrate, magnesium stearate, polysorbate 80, povidone K-30 and sodium lauryl sulfate.

#### **ACH-Ezetimibe comes in the following dosage forms:**

Tablet 10 mg (white to off-white, capsule-shaped, flat faced with beveled edge, uncoated tablets, debossed with “10” on one side and plain on other side.

#### **Do not use ACH-Ezetimibe if:**



- you/your child are allergic to ezetimibe or any of the nonmedicinal ingredients in ACH-Ezetimibe.
- you/your child are taking a statin and have liver disease and/or active or unexplained increases in liver enzymes (blood tests of liver function).
- you are pregnant and taking a statin or fenofibrate.
- you are nursing and taking a statin or fenofibrate.
- are lactose intolerant or have one of the following rare hereditary diseases:
  - Galactose intolerance
  - Lapp lactase deficiency
  - Glucose-galactose malabsorption
 because lactose is a non-medicinal ingredient in ACH-Ezetimibe.

**To help avoid side effects and ensure proper use, talk to your healthcare professional before you/your child take ACH-Ezetimibe. Talk about any health conditions or problems you/your child may have, including if you/your child:**

- are pregnant, plan to become pregnant or think you might be pregnant.
- are breast-feeding or are planning to breast-feed. ACH-Ezetimibe may be passed in your milk to your baby.
- have liver problems.
- are taking fibrates other than fenofibrate. Talk to your healthcare professional if you are not sure.
- have previously taken a statin and had persistent or severe muscle pain with no obvious cause.

**Other warnings you should know about:**

**Liver function tests:** If you/your child are taking ACH-Ezetimibe alone or with a statin or fenofibrate, your healthcare professional may do liver function tests before and during treatment. This is to check and monitor the health of the liver.

**Gallbladder problems:** Taking ACH-Ezetimibe and fenofibrate may cause gallbladder problems such as gallstones. Talk to your healthcare professional **right away** if you/your child has:

- severe abdominal pain
- nausea
- vomiting

**Tell your healthcare professional about all the medicines you take, including any drugs, vitamins, minerals, natural supplements or alternative medicines.**

**Serious Drug Interactions**

If you/your child are taking ACH-Ezetimibe with cyclosporine, your healthcare professional will monitor the amount of cyclosporine in your/their body.

**The following may interact with ACH-Ezetimibe:**

- Bile acid sequestrants such as cholestyramine
- Fibrates

**How to take ACH-Ezetimibe:**

- Always take ACH-Ezetimibe exactly as your healthcare professional tells you.
- Take ACH-Ezetimibe with or without food but preferably at the same time each day.
- Keep taking your other cholesterol-lowering medicines known as statins or fenofibrate unless your healthcare professional tells you to stop. You can take ACH-Ezetimibe at the same time as the statin or fenofibrate.
- If you/your child are also taking a bile acid sequestrant, take/give ACH-Ezetimibe 2 hours before or at least 4 hours after taking the bile acid sequestrant.

- Carefully follow any measures that your healthcare professional has recommended for diet, exercise or weight control.

**Usual dose:**

**Usual dose (children 10 years of age and older and adults):** Take one 10 mg tablet each day.

Even if you are taking medication to treat high cholesterol, it is important to have your cholesterol measured regularly. You should also know your cholesterol levels and goals.

**Overdose:**

If you think you, or a person you are caring for, have taken too much ACH-Ezetimibe, contact a healthcare professional, hospital emergency department, or regional poison control centre immediately, even if there are no symptoms.

**Missed Dose:**

If you/your child miss a dose, skip the missed dose. Take your/give their next dose as scheduled. Do not take/give two doses at the same time to make up for the missed dose.

**What are possible side effects from using ACH-Ezetimibe?**

These are not all the possible side effects you may have when taking ACH-Ezetimibe. Some of these side effects may occur when taking ACH-Ezetimibe or when taking ACH-Ezetimibe with a statin or fenofibrate. If you experience any side effects not listed here, tell your healthcare professional.

Side effects may include:

- abdominal pain
- diarrhea
- flatulence
- viral infection, throat infection (pharyngitis), nose infection (sinusitis) or upper chest infection
- pain including back pain, neck pain, joint pain (arthralgia), chest pain and pain in the arms and legs
- coughing
- elevations in some laboratory blood tests of liver (transaminases) or muscle (CK) function
- indigestion or heartburn
- nausea
- muscle spasms or weakness
- decreased appetite
- hot flush
- high blood pressure
- dizziness
- depression
- constipation
- unusual tiredness or weakness
- headache
- tingling sensation usually in the hands, arms, legs or feet
- dry mouth
- gastritis
- rash, hives or itching swelling, especially in the hands and feet

Serious side effects and what to do about them			
Symptom / effect	Talk to your healthcare professional		Stop taking drug and get immediate medical help
	Only if severe	In all cases	
<b>RARE</b>			
<b>Erythema multiforme</b> (an allergic skin reaction): raised red or purple skin patches, possibly with blister or crust in the center; possibly swollen lips, mild itching or burning		√	
<b>Gallbladder problems:</b> severe abdominal pain, nausea, vomiting, fever, pain that radiates to your shoulder or back, severe pain in your upper right abdomen		√	
<b>Liver problems:</b> severe abdominal pain, especially if felt on the upper right side below the ribs, dark urine, general itchiness, severe nausea or vomiting, pale stools, yellowing of skin or eyes		√	
<b>Pancreatitis</b> (inflammation of the pancreas): upper abdominal pain, fever, rapid heartbeat, nausea, vomiting, tenderness when touching the abdomen		√	
<b>Serious muscle problems (myopathy, rhabdomyolysis, myalgia):</b> aching muscle, tenderness or weakness that you cannot explain, red-brown (tea coloured) urine	√		
<b>Serious skin reactions (Stevens Johnson Syndrome (SJS), Toxic Epidermal Necrolysis (TEN), Drug reaction with eosinophilia and systemic symptoms (DRESS)):</b> serious illness with severe peeling and swelling of the skin, blistering of the skin, mouth, eyes, genitals and fever; skin rash with pink-red blotches especially on palms of hands or soles of feet, which may blister. You may also have flu-like symptoms at the same time, such as fever, chills or aching muscle.			√
<b>Severe allergic reactions:</b> swelling of the face, lips, tongue, and/or throat that may cause difficulty in breathing or swallowing, rash and hives			√
<b>Thrombocytopenia</b> (low blood platelets): bruising or bleeding for longer than usual if you hurt yourself, fatigue and weakness		√	

If you/your child have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your/their daily activities, tell your healthcare professional.

## Reporting Side Effects

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting (<https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect-canada/adverse-reaction-reporting.html>) for information on how to report online, by mail or by fax; or
- Calling toll-free at 1-866-234-2345.

*NOTE: Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.*

## Storage:

Keep your medicine between 15°C and 30°C. Protect from moisture.

Keep ACH-Ezetimibe and all medicines out of the reach and sight of children.

Do not use this medicine after the date shown following EX (or EXP) on the container.

## If you want more information about ACH-Ezetimibe:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website (<https://www.canada.ca/en/health-canada/services/drugs-health-products/drug-products/drug-product-database.html>); the manufacturer's website [www.accordhealth.ca](http://www.accordhealth.ca), or by calling Accord Healthcare Inc. at 1-866-296-0354.

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Last revised: SEP 13, 2024