

PRODUCT MONOGRAPH

Pr MYLAN-NABUMETONE

(Nabumetone Tablets, BP)

500 mg

NONSTEROIDAL ANTI-INFLAMMATORY AGENT

Mylan Pharmaceuticals ULC
85 Advance Road
Etobicoke, ON
Canada

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(Nabumetone Tablets, BP)

500 mg

PART I: HEALTH PROFESSIONAL INFORMATION

SUMMARY PRODUCT INFORMATION

Route of Administration	Dosage Form / Strength	Clinically Relevant Nonmedicinal Ingredients
Oral	Tablet / 500 mg	Microcrystalline cellulose, sodium lauryl sulphate, saccharin sodium, hydroxypropyl methylcellulose, sodium starch glycollate, magnesium stearate, titanium dioxide, polyethylene glycol and talc.

INDICATIONS AND CLINICAL USE

Mylan-Nabumetone (nabumetone) is indicated for acute and chronic relief of the signs and symptoms of rheumatoid arthritis and osteoarthritis.

Geriatrics (≥ 65 years of age)

Patients older than 65 years and frail or debilitated patients are most susceptible to a variety of adverse reactions from nonsteroidal anti-inflammatory drugs (NSAIDs) and a brief discussion can be found under **WARNINGS AND PRECAUTIONS**.

Pediatrics

No clinical data is available.

CONTRAINDICATIONS

- Patients who are hypersensitive to this drug or to any ingredient in the formulation or component of the container. For a complete listing of ingredients, see the **DOSAGE FORMS, COMPOSITION AND PACKAGING** section of the product monograph.
- Patients who have previously exhibited hypersensitivity to it or other nonsteroidal anti-inflammatory drugs. The potential for cross-reactivity between different NSAIDs must be kept in mind.

- Patients with active peptic ulcer, a history of recurrent ulceration or active inflammatory disease of the gastrointestinal system.
- Patients with severely impaired or deteriorating renal function. Individuals with lesser degrees of renal impairment are at risk of deterioration of their renal function when prescribed NSAIDs and must be monitored. See **WARNINGS AND PRECAUTIONS, Renal**.
- Mylan-Nabumetone should not be given to patients with the complete or partial syndrome of nasal polyps, or in whom ASA or other NSAIDs induce asthma, rhinitis, urticaria or other allergic type reactions. Fatal anaphylactoid reactions have occurred in such individuals. As well, individuals with the above medical problems are at risk of a severe reaction even if they have taken NSAIDs in the past without any adverse effects.
- Patients with significant hepatic impairment or active liver disease.
- Mylan-Nabumetone is not recommended for use with other NSAIDs because of the absence of any evidence demonstrating synergistic benefits and the potential for additive side effects.

WARNINGS AND PRECAUTIONS

General

Aseptic Meningitis

In occasional cases, with some NSAIDs, the symptoms of aseptic meningitis (stiff neck, severe headaches, nausea and vomiting, fever or clouding of consciousness) have been observed. Patients with autoimmune disorders (systemic lupus erythematosus, mixed connective tissues diseases, etc.) seem to be predisposed. Although aseptic meningitis has not been reported for nabumetone tablets, in such patients, the physician must be vigilant to the potential development of this complication.

Infection

In common with other anti inflammatory drugs, nabumetone may mask the usual signs of infection.

Carcinogenesis and Mutagenesis

See **PART II: SCIENTIFIC INFORMATION, TOXICOLOGY**.

Cardiovascular

Fluid retention and edema have been observed in patients treated with nabumetone. Therefore, as with many other NSAIDs, the possibility of precipitating congestive heart failure in elderly patients or those with compromised cardiac function should be borne in mind. Nabumetone

should be used with caution in patients with heart failure, hypertension or other conditions predisposing to fluid retention.

With NSAID treatment, there is a potential risk of hyperkalemia particularly in patients with conditions such as diabetes mellitus or renal failure; elderly patients; or in patients receiving concomitant therapy with beta adrenergic blockers, angiotensin converting enzyme inhibitors or some diuretics. Serum electrolytes should be monitored periodically during long-term therapy, especially in those patients at risk.

Gastrointestinal

Peptic ulceration, perforation and gastrointestinal (GI) bleeding, sometimes severe and occasionally fatal can occur at any time, with or without symptoms during therapy with NSAIDs including nabumetone. Although minor upper GI problems, such as dyspepsia, are common, usually developing early in therapy, physicians should remain alert for ulceration and bleeding in patients treated chronically with nonsteroidal anti-inflammatory drugs, even in the absence of previous GI tract symptoms.

Nabumetone should be given under close medical supervision to patients prone to gastrointestinal irritation particularly those with a history of peptic ulcer, diverticulosis or other inflammatory disease of the gastrointestinal tract such as ulcerative colitis and Crohn's disease. In these cases the physician must weigh the benefits of treatment against the possible hazards.

In controlled and open label extension clinical trials involving 1,677 patients treated with nabumetone (1,140 followed for 1 year and 927 for 2 years), the cumulative incidence of peptic ulcers was 0.3% (95% CI; 0%, 0.6%) at 3 to 6 months, 0.5% (95% CI; 0.1%, 0.9%) at 1 year and 0.8% (95% CI; 0.3%, 1.3%) at 2 years. Physicians should inform patients about the signs and/or symptoms of serious GI toxicity and instruct them to contact a physician immediately if they experience persistent dyspepsia or other symptoms or signs suggestive of gastrointestinal ulceration or bleeding.

Because serious GI tract ulceration and bleeding can occur without warning symptoms, physicians should follow chronically treated patients by checking their hemoglobin periodically and by being vigilant for the signs and symptoms of ulceration and bleeding and should inform the patient of the importance of this follow-up.

If ulceration is suspected or confirmed, or if GI bleeding occurs, nabumetone should be discontinued immediately, appropriate treatment instituted and the patient monitored closely.

Studies to date have identified that there is no group of patients not at risk of developing ulceration and bleeding. A prior history of serious GI events and other factors such as excess alcohol intake, smoking, age, female gender and anticoagulant use have been associated with increased risk. Caution should be used when administering to patients with other therapies known to increase the risk of gastrointestinal ulcer (e.g., oral corticosteroids).

High doses of any NSAID may carry a greater risk of these reactions, although controlled clinical trials showing this do not exist in most cases. In considering the use of relatively large doses (within the recommended dosage range), sufficient benefit should be anticipated to offset the potential increased risk of GI toxicity.

Patients older than 65 years and frail or debilitated patients are most susceptible to a variety of adverse reactions from NSAIDs: the incidence of these adverse reactions generally increases with dose and duration of treatment. In addition, these patients are less tolerant to ulceration and bleeding. Most reports of fatal GI events are in this population. Older patients are also at risk of lower esophageal ulceration and bleeding. However, data from controlled clinical studies with nabumetone (where 24% of 1677 patients were ≥ 65 years of age) have indicated that there were no overall differences in efficacy or safety between older patients and younger ones.

As with other NSAIDs, the lowest dose should be sought for each patient. Therefore, after observing the response to initial therapy, the dose should be adjusted to meet individual patients requirements.

There is no definitive evidence that the concomitant administration of histamine H₂ receptor antagonists and/or antacids will either prevent the occurrence of gastrointestinal side effects or allow continuation of nabumetone therapy when and if these adverse reactions occur.

Genitourinary

Some NSAIDs are known to cause persistent urinary symptoms (bladder pain, dysuria, urinary frequency), hematuria or cystitis. The onset of these symptoms may occur at any time after the initiation of therapy with an NSAID. Some cases have become severe on continued treatment. Should urinary symptoms occur, treatment with nabumetone must be stopped immediately to obtain recovery. This should be done before any urological investigations or treatments are carried out.

Hematologic

Drugs inhibiting prostaglandin biosynthesis do interfere with platelet function to varying degrees; therefore, patients who may be adversely affected by such an action should be carefully observed when nabumetone is administered. Blood dyscrasias (such as neutropenia, leukopenia, thrombocytopenia, aplastic anemia and agranulocytosis) associated with the use of NSAIDs are rare, but could have severe consequences. In one week repeat dose studies in healthy volunteers, nabumetone 1000 mg daily had little effect on collagen induced platelet aggregation and no effect on bleeding time. Nabumetone cannot be used as a substitute for low dose aspirin therapy in patients requiring such therapy.

Hepatic/Biliary/Pancreatic

As with other NSAIDs, borderline elevations of one or more liver tests may occur in up to 15% of patients. These abnormalities may progress, may remain essentially unchanged, or may return to normal with continued therapy. The ALT (SGPT) test is probably the most sensitive indicator of liver dysfunction. Meaningful (3 times the upper limit of normal) elevations of ALT (SGPT) or AST (SGOT) have occurred in controlled clinical trials of nabumetone in less than 1% of patients.

A patient with symptoms and/or signs suggesting liver dysfunction, or in whom an abnormal liver test has occurred, should be evaluated for evidence of the development of more severe hepatic reaction while on therapy with this drug.

Severe hepatic reactions, including jaundice and cases of fatal hepatitis have been reported with NSAIDs. Although such reactions are rare, if abnormal liver tests persist or worsen, if clinical signs and symptoms consistent with liver disease develop, or if systemic manifestations occur (e.g., eosinophilia, rash, etc.), this drug should be discontinued.

During long-term therapy, liver function tests should be monitored periodically. If there is a need to prescribe this drug in the presence of impaired liver function, it must be done under strict observation.

Immune

Cross-Sensitivity

Patients sensitive to any one of the nonsteroidal anti-inflammatory drugs may be sensitive to any of the other NSAIDs also.

Hypersensitivity

As with other NSAIDs, allergic reactions may occur. Manifestations of allergic reactions include urticaria, dyspnea, and in rare instances anaphylaxis, or severe skin reactions such as Stevens-Johnson syndrome.

Neurologic

Some patients may experience drowsiness, dizziness, vertigo, insomnia, or depression with the use of nabumetone. Patients experiencing these side effects should exercise caution in carrying out activities that require alertness.

Ophthalmologic

Blurred and/or diminished vision has been reported with the use of nabumetone and other NSAIDs. If such symptoms develop this drug should be discontinued and an ophthalmologic

examination performed; ophthalmic examinations should be carried out at periodic intervals in any patients receiving this drug for an extended period of time.

Renal

Long-term administration of NSAIDs to animals has resulted in renal papillary necrosis and other abnormal renal pathology. In humans, there have been reports of acute interstitial nephritis with hematuria, proteinuria, and occasionally nephrotic syndrome associated with NSAID use.

A second form of renal toxicity has been seen in patients with pre-renal conditions leading to the reduction in renal blood flow or blood volume, where the renal prostaglandins have a supportive role in the maintenance of renal perfusion. In these patients, administration of a NSAID may cause a dose-dependent reduction in prostaglandin formation and may precipitate overt renal decompensation. Patients at greatest risk of this reaction are those with impaired renal function, heart failure, liver dysfunction, those taking diuretics, and the elderly. Discontinuation of nonsteroidal anti-inflammatory therapy is usually followed by recovery to the pre-treatment state.

Nabumetone and its metabolites are eliminated primarily by the kidneys, therefore the drug should be used with caution in patients with impaired renal function.

As with other NSAIDs, in patients with severely impaired renal function (creatinine clearance <30 mL/min or <0.5 mL/sec), lower doses of nabumetone should be considered and patients should be monitored more closely than patients with normal renal function. Laboratory tests should be performed at baseline and within weeks of starting therapy. Further tests should be carried out as necessary: if the impairment worsens, discontinuation of therapy may be warranted.

In moderate renal impairment (creatinine clearance 30 to 49 mL/min) there is a 50% increase in unbound plasma 6-MNA and dose reduction may be warranted (see **DRUG INTERACTIONS**).

During long-term therapy, kidney function should be monitored periodically.

Special Populations

Pregnant Women

There is no clinical trial experience with the use of nabumetone during human pregnancy.

Use of nabumetone during the first two trimesters of pregnancy should be restricted to situations where the potential benefit to the mother justifies the potential risk to the fetus or nursing infant.

The known effects of drugs of this class on the human fetus during the third trimester of pregnancy include constriction of the ductus arteriosus, pulmonary and cardiac changes. Therefore, use of nabumetone during the third trimester of pregnancy is not recommended.

Teratogenic effects were not observed in rats or rabbits. Postnatal development was not affected even though the active metabolite of nabumetone (6-MNA) is found in the milk of lactating rats. Nabumetone and/or its active metabolites have been shown to cross the placental barrier of rats. (See **TOXICOLOGY**).

Nursing Women

There is no clinical trial experience with the use of nabumetone during human lactation. As the safety and efficacy of nabumetone in human lactation have not been established, its use is therefore not recommended.

Pediatrics

Nabumetone is not recommended for use in children because the safety and efficacy in children have not been established.

Geriatrics

Use in the elderly and debilitated patient should be monitored more closely as NSAID use in this population is known to be associated with a higher risk of adverse events. Data from controlled clinical studies (where 24% of 1677 patients were ≥ 65 years of age) and UK post marketing studies with nabumetone (where 43% of 10,800 patients were ≥ 65 years of age) indicate that there were no differences in efficacy or safety between older and younger patients. (See **Cardiovascular, Gastrointestinal and Renal**).

ADVERSE REACTIONS

Clinical Trial Adverse Drug Reactions

Because clinical trials are conducted under very specific conditions the adverse reaction rates observed in the clinical trials may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse drug reaction information from clinical trials is useful for identifying drug-related adverse events and for approximating rates.

The most common adverse reactions encountered with NSAIDs are gastrointestinal, of which peptic ulcer, with or without bleeding, is the most severe. Fatalities have occurred particularly in the elderly.

Adverse reaction information was derived from blinded controlled and open-labelled clinical trials and from worldwide marketing experience. Over 6,000 patients have been treated with nabumetone in clinical trials, and over 49,000 patients included in post-marketing surveillance studies and nabumetone has been prescribed extensively in those countries where the drug has received registration clearance.

In large scale post-marketing studies the adverse event profile was highly consistent with the profile seen in clinical trials of nabumetone. The pattern of adverse events remained similar in patients treated with nabumetone for several years, similar in patients taking 1-2 g doses, and was similar in patients aged <65 or ≥65 years.

Information on adverse experiences observed in U.S. clinical studies is presented below. Of the 1,677 patients who received nabumetone during U.S. clinical trials, 1,524 were treated for at least one month, 1,327 for at least three months, 929 for at least a year and 750 for at least two years. Over 300 patients have been treated for five years or longer.

The most frequently reported adverse reactions were related to the gastrointestinal tract. They were diarrhea, dyspepsia and abdominal pain. Discontinuation of therapy due to these adverse events was 1.3% (diarrhea), 0.8% (dyspepsia) and 1.1 % (abdominal pain) during the double blind phase of the US clinical trials involving 930 patients treated with nabumetone for up to 6 months. Of 1,677 patients treated with nabumetone in controlled and open label extension clinical trials (1,140 followed for one year and 927 for two years), the cumulative incidence of peptic ulcers was 0.3% at 3-6 months, 0.5% at one year and 0.8% at two years.

The following table displays adverse events reported in long-term clinical trial follow-up involving treatment for up to 8 years. Where available, percentages are based upon the total number of observations, thus patients reporting multiple incidents of an adverse event have been recorded for each occurrence. Causal relationship to nabumetone has not necessarily been established for all of the events listed below.

Table 1 – Adverse Events Reported in Long-term Follow-up with Nabumetone

	Nabumetone (%)
<i>Gastrointestinal:</i>	
Diarrhea	14
Dyspepsia	13
Abdominal Pain	12
Nausea	9
Flatulence	6
Constipation	4
Positive Stool Guaiac	2
Dry Mouth	2
Gastritis	1
Vomiting	1
Melena	1
<i>Central Nervous System:</i>	
Headache	8
Dizziness	6
Insomnia	3
Fatigue	2
Somnolence	2
Increased Sweating	1
Nervousness	1
<i>Dermatologic:</i>	
Rash	7
Pruritus	4
<i>Special Senses:</i>	
Tinnitus	4
Abnormal Vision	2
<i>Cardiovascular:</i>	
Hypertension	1.7
Palpitations	1
<i>Respiratory:</i>	
Dyspnea	1

Less Common Clinical Trial Adverse Drug Reactions (<1%)

The following adverse events were reported in long-term clinical trial follow-up involving treatment for up to 8 years. Adverse events listed at an estimated incidence of $\leq 0.01\%$ are based on spontaneous reports from worldwide marketing experience. Where available, percentages are based upon the total number of observations, thus patients reporting multiple incidents of an adverse event have been recorded for each occurrence. Causal relationship to nabumetone has not necessarily been established for all of the events listed below.

Gastrointestinal

Eructation (0.7%), gastroenteritis (0.7%), anorexia (0.7%), rectal bleeding (0.5%), gastric ulcer (0.4%), duodenal ulcer (0.4%), stomatitis (0.4%), dysphagia (0.3%), increased appetite (0.2%), glossitis (0.2%), pancreatitis (0.1%), gingivitis (0.1%), duodenitis (0.1%), bilirubinuria (0.1%), gastrointestinal bleeding (0.1%), cholestatic jaundice (S0.01%), gallstones (S0.01%).

Central Nervous System

Depression (0.9%), vertigo (0.9%), malaise (0.8%), paresthesia (0.8%), asthenia (0.7%), anxiety (0.4%), confusion (0.3%), agitation (0.1%), tremor (0.1%), nightmares (<0.01%).

Dermatologic

Alopecia (0.9%), urticaria (0.7%), acne (0.4%), bullous eruptions (0.2%), photosensitivity (0.2%), pseudoporphyria cutanea tarda ($\leq 0.01\%$), erythema multiforme ($\leq 0.01\%$), Stevens Johnson syndrome ($\leq 0.01\%$), toxic epidermal necrolysis ($\leq 0.01\%$).

Special Senses

Taste disorder (0.2%).

Cardiovascular

Syncope (0.3%), thrombophlebitis (0.2%), vasculitis (0.1%), angina (0.1%), arrhythmia (0.1%), myocardial infarction (0.1%).

Respiratory

Cough (0.6%), asthma (0.4%), eosinophilic pneumonia ($\leq 0.01\%$), hypersensitivity pneumonitis ($\leq 0.01\%$), interstitial pneumonitis ($\leq 0.01\%$).

Renal/Genitourinary

Dysuria (0.7%), albuminuria (0.5%), hematuria (0.4%), impotence (0.2%), renal stones (0.2%), hyperuricemia (0.1%), azotemia (0.1%), interstitial nephritis ($\leq 0.01\%$), nephrotic syndrome ($\leq 0.01\%$), renal failure ($\leq 0.01\%$), vaginal bleeding ($\leq 0.01\%$).

Other

Edema (0.7%), weight gain (0.7%), weight loss (0.4%), fever (0.4%), chills (0.2%), hyperglycemia (0.2%), hypokalemia (0.1%).

Hematologic/Lymphatic

Anemia (0.5%), leucopenia (0.4%), thrombocytopenia (0.2%), granulocytopenia (0.1%), aplastic anemia (<0.01).

Hepatic

Liver function abnormalities (0.5%), elevated liver function tests ($\leq 0.01\%$), jaundice ($\leq 0.01\%$), hepatic failure ($\leq 0.01\%$).

Allergic/Hypersensitivity

Angioneurotic edema (<0.01%), anaphylactoid reaction (<0.01%), anaphylaxis (<0.01%).

DRUG INTERACTIONS

Drug-Drug Interactions

In vitro studies have shown that, because of its affinity for protein, the active metabolite of nabumetone may displace other protein-bound drugs such as sulfonyleureas, tolbutamide, chlorpropamide and warfarin, from their binding site. However, clinical pharmacology studies demonstrated no significant drug interaction between warfarin and nabumetone.

Numerous studies have shown that the concomitant use of NSAIDs and anticoagulants increase the risk of GI adverse events such as ulceration and bleeding. For these reasons, the concomitant administration of nabumetone and warfarin or other highly protein bound drugs should be undertaken with caution. In addition, because prostaglandins play an important role in hemostasis, and NSAIDs affect platelet function, concurrent therapy of nabumetone with warfarin requires close monitoring to be certain that no change in anticoagulant dosage is necessary.

Digoxin levels should be monitored, and if necessary, a dosage adjustment made when administered concomitantly with nabumetone. NSAIDs have also been reported to increase steady-state plasma lithium concentrations. It is recommended that these concentrations be monitored when initiating, adjusting or discontinuing nabumetone treatment. Rare cases of fatal renal toxicity have occurred when methotrexate and NSAIDs are given concomitantly.

Concomitant administration of an aluminum-containing antacid had no significant effect on the bioavailability of 6-MNA.

Concomitant administration of paracetamol, ASA or cimetidine did not affect the bioavailability of the principal circulating metabolite in volunteer subjects.

Numerous studies have shown that the concomitant use of NSAIDs and oral glucocorticoids increases the risk of GI side effects such as ulceration and bleeding. This is especially the case in older (>65 years of age) individuals.

In controlled rheumatoid arthritis trials, nabumetone has been used in combination with gold, d-penicillamine, and corticosteroids. There was no evidence of untoward effects associated with their concurrent administration.

No specific drug interaction studies have been conducted with nabumetone and antihypertensives, oral contraceptives, diuretics, cyclosporine, probenecid, aminoglycosides, cholestyramine, oral hypoglycemic agents or alcohol.

DOSAGE AND ADMINISTRATION

Recommended Dose and Dosage Adjustment

Osteoarthritis and Rheumatoid Arthritis

The starting and usual adult dose is 1000 mg daily taken as a single dose with or without food. The dosage may be increased to 1500 mg or 2000 mg per day given either as a single dose or in two divided doses.

Since nabumetone has an average plasma half-life of 23 hours in healthy young subjects and 30 hours in elderly patients, plasma levels of 6-MNA will approximate steady-state within one week of dosing. For this reason, dosage adjustments during therapy should not be made more frequently than at one-week intervals, except in the case of side effects.

In patients with severe renal or hepatic impairment, dosage level adjustments should be made on an individual basis. In moderate renal impairment dose reduction may be warranted (see **WARNINGS AND PRECAUTIONS**, and **DRUG INTERACTIONS**).

OVERDOSAGE

For management of a suspected drug overdose, contact your regional Poison Control Centre.

Overdoses with nabumetone have been rarely reported. There is no specific antidote and the active metabolite 6-MNA is not dialysable. If acute overdose occurs, it is recommended that the stomach be emptied by vomiting or lavage and institution of general supportive measures as necessary. In addition, the use of activated charcoal, up to 60 g, may effectively reduce nabumetone absorption. Co-administration of nabumetone with activated charcoal orally in man has resulted in an 80% decrease in maximum plasma concentrations of the active metabolite.

ACTION AND CLINICAL PHARMACOLOGY

Mechanism of Action

Nabumetone is a non-acidic, NSAID with a naphthylalkanone structure which is virtually insoluble in water. It exhibits anti-inflammatory, analgesic and antipyretic properties in pharmacologic studies. As with the acidic NSAIDs, its mode of action is not known. However, the ability to inhibit prostaglandin synthesis may be involved in the anti-inflammatory effect.

Nabumetone as the parent compound is a pro-drug which undergoes rapid hepatic biotransformation to its principal active metabolite, 6-methoxy-2-naphthylacetic acid (6-MNA), a potent inhibitor of prostaglandin biosynthesis.

Nabumetone was compared to ASA in inducing gastrointestinal blood loss. Food intake was not monitored. Studies utilizing ⁵¹Cr tagged red blood cells in healthy males showed no difference in fecal blood loss after three or four weeks' therapy of nabumetone 1000 mg or 2000 mg daily when compared to either placebo-treated or non-treated subjects. In contrast, ASA 3600 mg daily produced an increase in fecal blood loss when compared to the nabumetone, placebo or non-treated subjects.

In one week repeat dose studies in healthy volunteers, nabumetone 1000 mg daily had little effect on collagen-induced platelet aggregation and no effect on bleeding time.

Pharmacokinetics

Table 2 - Mean pharmacokinetic parameters of nabumetone active metabolite (6-MNA) at steady state following oral administration of 1000 mg or 2000 mg doses of nabumetone

Abbreviations (units)	Young Adults Mean ± SD 1000 mg n=31	Young Adults Mean ± SD 2000 mg n=12	Elderly Mean ±SD 1000 mg n=27
t_{max} (hours)*	3.0 (1.0 to 12.0)	2.5 (1.0 to 8.0)	4.0 (1.0 to 10.0)
t_{1/2} (hours)	22.5 ± 3.7	26.2 ± 3.7	29.8 ± 8.1
Cl_{ss}/F (mL/min)	26.1 ± 17.3	21.0 ± 4.0	18.6 ± 13.4
Vd_{ss}/F(L)	55.4 ± 26.4	53.4 ± 11.3	50.2 ± 25.3

*t_{max} is reported as median (range) values.

Absorption

After oral administration, approximately 80% of a radio-labelled dose of nabumetone is found in the urine, indicating that nabumetone is well absorbed from the gastrointestinal tract.

Following oral administration, peak plasma levels of 6-MNA occur between 2.5 and 4 hours (range 1 to 12 hours).

When administered with food or milk, there is more rapid absorption; however, the total amount of 6-MNA in the plasma is unchanged.

Distribution

Preliminary *in vivo* and *in vitro* studies suggest that unlike other NSAIDs, there is no evidence of enterohepatic recirculation of the active metabolite. Steady-state is generally achieved between 3 and 6 days and the elimination half-life is variable from 23 (±3.7) hours in young healthy patients to 30 (±8.1) hours in the elderly.

The active metabolite penetrates into the synovial fluids at measurable sustained levels in osteoarthritis and rheumatoid arthritis patients. There is wide inter-individual variation in plasma

concentrations of 6-MNA. A correlation between plasma 6-MNA levels and efficacy has not been established.

6-MNA is more than 99% bound to plasma proteins. The free fraction is dependent on total concentration of 6-MNA and is proportional to dose over the range of 1000 to 2000 mg. It is 0.2% to 0.3% at concentrations typically achieved following administration of nabumetone 1000 mg and is approximately 0.6% to 0.8% of the total concentrations at steady-state following daily administration of 2000 mg.

Metabolism

Nabumetone itself is not quantifiable in the plasma because, after absorption, it undergoes rapid biotransformation to the principal active metabolite, 6-MNA. Approximately 35% of a 1000 mg dose of nabumetone is converted to 6-MNA and 50% is converted into unidentified metabolites which are subsequently excreted in the urine.

Excretion

After oral administration, approximately 80% of a radio-labelled dose of nabumetone is found in the urine.

Special Populations and Conditions

Geriatrics

Steady-state plasma concentrations in elderly patients were generally higher than in young healthy subjects (See Table 2).

Hepatic Insufficiency

Data in patients with severe hepatic impairment are limited. Biotransformation of nabumetone to 6-MNA and the further metabolism of 6-MNA to inactive metabolites is dependent on hepatic function and could be reduced in patients with severe hepatic impairment (history of or biopsy-proven cirrhosis).

Renal Insufficiency

In studies of patients with renal insufficiency, the mean terminal half-life of 6-MNA was increased in patients with severe renal dysfunction (creatinine clearance <30 mL/min/1.73 m² or <0.5 mL/sec/1.73 m²). In patients undergoing hemodialysis, steady state plasma concentrations of the active metabolite were similar to those observed in healthy subjects. Due to extensive protein binding, 6-MNA is not dialyzable.

STORAGE AND STABILITY

Bottles of Mylan-Nabumetone 500 mg tablets should be stored at room temperature (between 15°C and 30°C) in a tightly closed, light-resistant container.

DOSAGE FORMS, COMPOSITION AND PACKAGING

Each Mylan-Nabumetone 500 mg tablet contains 500 mg of nabumetone and the following non-medicinal ingredients: microcrystalline cellulose, sodium lauryl sulphate, saccharin sodium, hydroxypropyl methylcellulose, sodium starch glycollate, magnesium stearate, titanium dioxide, polyethylene glycol, and talc.

Mylan-Nabumetone (nabumetone) is available as 500 mg tablets. The 500 mg tablets are white, film-coated, capsule-shaped tablets with “G” on one side and “NB 500” on the other side. The 500 mg tablets are available in HDPE bottles of 100 tablets.

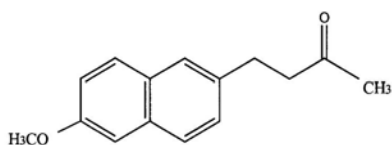
PART II: SCIENTIFIC INFORMATION

PHARMACEUTICAL INFORMATION

Drug Substance

Proper name: Nabumetone
Chemical name: 4-(6-methoxy-2-naphthyl)-butan-2-one

Structural Formula:



Molecular Formula: C₁₅H₁₆O₂

Molecular Weight: 228

Description: Nabumetone, the active ingredient in Mylan-Nabumetone, is a nonacidic naphthylalkanone derivative. It is a white to off-white crystalline substance which is practically insoluble in water and soluble in most organic solvents, including alcohol. The melting point of nabumetone is 79°- 82°C.

CLINICAL TRIALS

Summary Tables of the comparative bioavailability data:

TWO-WAY, CROSSOVER, SINGLE DOSE, FASTING STUDY (1 x 750 mg) From Measured Data

Parameter	Geometric Mean Arithmetic Mean (CV%)		Ratio (%) of Geometric Means
	Mylan-Nabumetone Tablet 750 mg	Relafen™* Tablet 750 mg	
AUC ₀₋₇₂ (µg.hr/mL)	538.8 619.6 (50.9)	571.1 656.6 (53.0)	94
AUCI (µg.hr/mL)	647.7 763.7 (56.3)	687.1 803.5 (56.5)	94
C _{max} (µg/mL)	15.30 16.99 (45.0)	14.67 16.04 (42.5)	104
T _{max} (h)**	3.20 (46.0)	8.68 (92.7)	Not Applicable
T _{1/2} (h)**	27.56 (25.1)	26.64 (20.6)	Not Applicable

TWO-WAY, CROSSOVER, SINGLE DOSE, FED STUDY (1 x 750 mg) From Measured Data

Parameter	Geometric Mean Arithmetic Mean (CV%)		Ratio (%) of Geometric Means
	Mylan-Nabumetone Tablet 750 mg	Relafen™* Tablet 750 mg	
AUC ₀₋₇₂ (µg.hr/mL)	787.1 842.4 (37.6)	851.9 892.3 (29.5)	92
AUCI (µg.hr/mL)	891.0 963.4 (40.8)	961.3 1012.6 (31.3)	93
C _{max} (µg/mL)	26.72 28.00 (30.7)	30.47 31.62 (26.9)	88
T _{max} (h)**	5.10 (23.0)	4.15 (28.4)	Not Applicable
T _{1/2} (h)**	22.62 (18.4)	22.59 (14.3)	Not Applicable

* GlaxoSmithKline Inc. (Canada). Purchased in Canada.

** Expressed as arithmetic means (CV%)

DETAILED PHARMACOLOGY

Clinical

Double-blind studies of up to 6 months duration in rheumatoid arthritis and osteoarthritis have demonstrated that nabumetone at a dosage of 1-2 g/day is at least as effective as daily doses of 3.6 g of acetylsalicylic acid (ASA), 1.6 g of ibuprofen, 75 - 150 mg of indomethacin, 100 mg of diclofenac and 500 mg - 1 g of naproxen. Long-term follow-up studies of up to 8 years duration have shown that nabumetone is well-tolerated.

In five endoscopically-controlled studies comparing nabumetone (102 patients treated at doses of 1 - 1.5 g/day) with naproxen (110 patients treated with doses of 500 mg - 1 g/day), nabumetone caused significantly fewer gastric and duodenal ulcers than naproxen. In two studies of 1 g/day nabumetone (n=78) compared with 600 mg ibuprofen q.i.d. alone (n=73) or in combination with 200 mcg misoprostol (q.i.d.) (n=60), nabumetone treatment resulted in significantly fewer gastric and duodenal ulcers than ibuprofen, and the frequency of ulcers with nabumetone was not significantly different from the incidence of ulcers in patients taking misoprostol concomitantly with ibuprofen.

In two clinical pharmacology studies conducted in healthy volunteers, it was demonstrated that nabumetone had little effect on collagen-induced platelet aggregation and no effect on bleeding time. Additionally, there was no evidence of serious hematological findings or clinically significant trends in hematological parameters associated with the use of nabumetone in clinical trials.

Animal

Nabumetone has shown good activity in two animal models of acute inflammation, namely the carrageenin-induced edema model in the rat and the ultra-violet induced erythema model in the guinea pig. It was also active in three rat models of chronic inflammation: the cotton-pellet-induced granuloma, adjuvant arthritis and arthritis induced by 6-sulfanilamido-indazole. Analgesic activity has been inferred from the effect of nabumetone in the mouse exposed to phenyl-p-quinone. In the rabbit, nabumetone was found to have antipyretic properties.

In the carrageenin-induced model of acute inflammation and the fasted model of gastric irritancy both studied in the rat, the ratio of the dose producing gastric irritancy to anti-inflammatory dose was between five and fifty times greater for nabumetone than for indomethacin, ASA, piroxicam, diclofenac or fenbufen. In this experimental situation, nabumetone exhibited a superior therapeutic index and the dose required to produce gastric irritancy was many times greater than the anti-inflammatory dose.

Nabumetone itself is a weak inhibitor of the cyclo-oxygenase system and, hence, of prostaglandin biosynthesis. Its principal metabolite in laboratory animals and in man, 6 methoxy-2-naphthylacetic acid, is a strong inhibitor of this enzyme system.

Nabumetone was well absorbed after oral administration to the rat, mouse, rabbit and rhesus monkey. Absorption in dogs was variable. Tissue distribution measured following administration of ¹⁴C-nabumetone to rats was found to be widespread except for a noteworthy absence of radioactivity in the gastric wall. Radioactive material crossed the placental barrier in the rat and also was found in rat milk.

Following its absorption from the gut, nabumetone is subject to considerable first pass biotransformation to its principal metabolite in all species (including man), 6-methoxy-2 naphthylacetic acid. Nabumetone itself can rarely be detected in the plasma, studies in the rat suggesting that its half-life is about 15 minutes. The half-life of the principal metabolite is about 20 hours in the dog and 24 hours in man. It is substantially shorter in the mouse (1 hour), the rat (2 hours), and the rhesus monkey (2 hours).

Nabumetone is metabolized in all species by three inter-related pathways: oxidative cleavage of the side chain to yield the acetic acid derivative, O-demethylation, and reduction of the ketone moiety to an alcohol.

The kidney is the major route of elimination with approximately 75% of the dose recovered in urine in the first 48 hours. Although several metabolites were observed in the urine, nabumetone itself has not been detected. Little excretion takes place in the bile except in the rat which also demonstrates enterohepatic circulation of metabolites.

TOXICOLOGY

Acute Toxicity

The oral LD₅₀ was in excess of 5000 mg/kg in mice and in excess of 2000 mg/kg in rats. Neonatal rats are approximately twice as sensitive. The principal target organ in rodents is the gastrointestinal tract.

Sub-Acute Toxicity

In Beagle dogs the maximum tolerated oral dose was 500 mg/kg and in a 14-day study doses of 60 and 300 mg/kg were tolerated with only minor effects which at the high dose included hematuria, fecal occult blood and mucosal erythema in the large bowel. Apart from slight reductions in serum alkaline phosphatase and, in one of the two dogs, in red cell parameters, 60 mg/kg/day was a no effect dose.

In the rhesus monkey doses up to 400 mg/kg were well tolerated in an oral maximum tolerated dose study. At doses of 800 mg/kg and above weight loss, slight gastrointestinal irritancy, and, at 1600 mg/kg, prolongation of blood coagulation time were seen. Following administration of 540 mg/kg/day for 28 days slight weight loss, slightly reduced red cell parameters, and minimal histological change in the kidney were the principal findings. Doses of 60 and 180 mg/kg/day for 14 days were without effect.

In the rat a dose of 200 mg/kg/day for 14 days was tolerated with only a moderate decrease in bodyweight gain, gastrointestinal ulceration in 1/12 rats, increased relative kidney weight, decreased relative pituitary and thymus weights and increased water intake. At 600 mg/kg/day the principal effect was marked gastrointestinal irritancy with ulceration and perforation of the small bowel resulting in 25% mortality. Apart from a slight increase in kidney weight, 67 mg/kg/day was a no effect dose. In a study of 27 days duration a dose of 20 mg/kg/day was without effect apart from trace amounts of fecal occult blood and minimal histological change in the adrenals. Doses of 60 and 180 mg/kg/day were tolerated with only slight effects on bodyweight gain and minor histopathological changes in spleen, bladder and adrenal. More severe gastrointestinal effects including perforation of the small bowel were seen in one rat dosed at 180 mg/kg/day which was killed in extremis.

Chronic Toxicity

Rats received nabumetone at 20, 80 and 320 mg/kg/day for 26 weeks. At the high dose, the principal finding was of gastrointestinal irritation with evidence of ulceration of the small intestine resulting in a number of mortalities. Apart from a transient pallor in two rats a dose of 80 mg/kg/day was without effect.

Rhesus monkeys received nabumetone for 26 weeks at oral doses of 20, 80 and 320 mg/kg. Apart from a transient effect on red cell parameters the no effect dose was 80 mg/kg/day. At the high dose there was evidence of edema, blood loss from the rectum and gastric erosions in a proportion of animals.

Rhesus monkeys were also studied for 52 weeks under oral dosing regimens of 25, 75, 225 and 450 mg/kg/day. Monkeys at the highest dose showed significant gastrointestinal irritation with secondary anemia and hypoproteinemia resulting in subcutaneous edema. Some evidence of interstitial nephritis was also seen in a proportion of animals. At the intermediate dose gastrointestinal irritation was evident to a lesser degree and 75 mg/kg/day was a no effect dose.

Rats received nabumetone daily for 78 weeks at doses of 37.5, 75 and 150 mg/kg in two separate studies. An additional group in one study received 300 mg/kg for 21 weeks only. The principal finding was of gastrointestinal irritancy which was severe at 300 mg/kg resulting in ulceration of the small intestine and 30% mortality before dosing was discontinued in week 21. Increases in kidney weight and decreases in urine osmolality were associated with a dose related nephropathy. There were no consistent changes in biochemical or hematological parameters. These effects in the rat are typical of nonsteroidal anti-inflammatory agents and were minimal at the low dose of 37.5 mg/kg/day. Recovery from these effects appeared to be complete in rats maintained for a further six weeks without treatment.

Except for elevations in serum sodium and chloride, no abnormalities were apparent after the surviving rats were off treatment for six weeks. All abnormalities noted appeared to be secondary to the renal and gastrointestinal effects of nabumetone at the doses employed. Mortality at the two intermediate dose levels was not different from controls but, at necropsy, decedents had findings similar to those observed at the highest dose.

REPRODUCTIVE STUDIES

Teratology studies in rats and rabbits at doses of up to 400 and 300 mg/kg/day, respectively, resulted in some degree of maternal toxicity at the highest doses used, but no evidence for a teratogenic effect in either species was detected. In common with other NSAIDs, increased embryonic loss about the time of implantation was observed in rabbits.

In male and female rats, reproductive performance and fertility were not impaired at doses up to 320 mg/kg/day. Whilst males were unaffected, nabumetone was toxic to the pregnant and lactating dam at 320 mg/kg/day, dystocia leading to maternal and fetal/neonatal death, delayed parturition and reduced maternal weight gain being frequent observations. In general, nabumetone had no effect on embryonic or fetal development but, at the high dose, there was an indication of reduced live litter size at Cesarean section, associated with a reduced number of shed ova as assessed by corpora lutea count; there was also a reduced number of males per litter. Associated with the dystocia, perinatal pup loss was markedly increased at 320 mg/kg/day, this resulted in reduced litter size postnatally and increased pup weight consequent upon reduced intra-litter competition. However, the postnatal development and behaviour of surviving pups was normal as was their subsequent reproductive performance. At the lower doses of 20 and 80 mg/kg/day, occasional intergroup differences were considered to be of doubtful biological significance.

In a peri- and post-natal toxicity study in rats, where all females were allowed to litter, treatment at the high dose of 320 mg/kg/day was also associated with prolonged gestation, dystocia and increased perinatal pup mortality but, as in the fertility study, there were no effects on the development of the surviving offspring. The reduced number of ova shed at ovulation leading to reduced litter size and the dystocia leading to effects on both dam and offspring during the perinatal period are likely to be due to the effect of nabumetone on prostaglandin biosynthesis. These findings are seen with other NSAIDs.

MUTAGENICITY/CARCINOGENICITY

In two-year studies conducted in mice and rats, nabumetone had no statistically significant tumorigenic effect. Nabumetone did not show mutagenic potential in the Ame's test and mouse micronucleus test in vivo. However, nabumetone- and 6-MNA-treated lymphocytes in culture showed chromosomal aberrations at 80 mcg/mL and higher concentrations (equal to the average human exposure to nabumetone at the maximum recommended dose).

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PART III: CONSUMER INFORMATION**Pr MYLAN-NABUMETONE
Nabumetone tablets, BP**

This leaflet is part III of a three-part "Product Monograph" published when MYLAN-NABUMETONE was approved for sale in Canada and is designed specifically for Consumers. This leaflet is a summary and will not tell you everything about MYLAN-NABUMETONE. Contact your doctor or pharmacist if you have any questions about the drug.

Remember - This medicine is prescribed for the particular condition that you have. **Do not give this medicine to other people, nor use it for any other condition.**

ABOUT THIS MEDICATION**What the medication is used for:**

MYLAN-NABUMETONE is a nonsteroidal anti-inflammatory drug (NSAID). It has been prescribed for you by your doctor to treat arthritic symptoms such as swelling, stiffness and joint pain.

What it does:

NSAIDs do not cure arthritis, but they promote suppression of the inflammation and the tissue damaging effects resulting from this inflammation. This medicine will help you only as long as you continue to take it.

When it should not be used:

Do not take MYLAN-NABUMETONE if you are allergic to nabumetone or to any non-medicinal ingredients of MYLAN-NABUMETONE.

What the medicinal ingredient is: Your tablets contain the active ingredient nabumetone.

What the non-medicinal ingredients are: MYLAN-NABUMETONE contains the following non-medicinal ingredients: microcrystalline cellulose, sodium lauryl sulphate, saccharin sodium, hydroxypropyl methylcellulose, sodium starch glycollate, magnesium stearate, titanium dioxide, polyethylene glycol, and talc.

What dosage forms it comes in: The 500 mg tablets are white, film-coated, capsule-shaped tablets with "G" on one side and "NB 500" on the other side.

Check with your doctor or pharmacist if the identifying markings or colour of your tablets appear different.

WARNINGS AND PRECAUTIONS

BEFORE you use MYLAN-NABUMETONE it is important that you tell your doctor or pharmacist about any of the following items so that your doctor may determine if MYLAN-NABUMETONE is suitable for you:

- Allergy (including rash, asthma, hives, sinusitis or anaphylaxis [sudden collapse]) when previously taking MYLAN-NABUMETONE or related anti-inflammatory medicines (e.g. ASA [acetylsalicylic acid], diclofenac, diflunisal, fenoprofen, flurbiprofen, ibuprofen, indomethacin, ketoprofen, mefenamic acid, naproxen, piroxicam, tenoxicam, tiaprofenic acid and tolmetin).
- Family member with asthma, nasal polyps, chronic sinusitis or chronic urticaria (hives).
- Past history of (or current) stomach upset, ulcer, or liver, kidney or heart disease.
- Blood or urine abnormalities.
- High blood pressure.
- Diabetes.
- Special diet, such as low sodium or low sugar diet.
- Pregnancy or intention to become pregnant while using MYLAN-NABUMETONE.
- Infant breast feeding.
- Other medical conditions such as alcohol abuse, bleeding problems etc.

While taking this medication:

- tell any other doctor, pharmacist or dentist you see, that you are taking MYLAN-NABUMETONE.
- contact your doctor if you are not getting any relief of your arthritis or if you develop any unusual discomfort.
- report any untoward reactions to your doctor. This is very important as it will aid in the early detection and prevention of potential complications.
- regular medical checkups are essential.
- you should not take MYLAN-NABUMETONE when pregnant or breast feeding unless your doctor tells you to.
- do not take ASA (acetylsalicylic acid) or other drugs to relieve your arthritis unless directed by your doctor.
- not recommended for use in children since safety and effectiveness have not been established.
- do not give MYLAN-NABUMETONE to others because it may not be suitable for them.

INTERACTIONS WITH THIS MEDICATION

Tell your doctor if you are taking any other medication (either prescription or non-prescription) such as other NSAIDs, high blood pressure medication, blood thinners, corticosteroids, methotrexate, cyclosporin, lithium, phenytoin. It is important to tell your doctor, dentist and pharmacist if you are taking other medication, as combining drugs can sometimes result in a change from the expected drug effects, or cause harmful effects.

PROPER USE OF THIS MEDICATION**Usual Dose:**

You should take MYLAN-NABUMETONE only as directed by your doctor. Do not take more of it, do not take it more often and do not take it for a longer period of time than your doctor ordered. Taking too much of any of these medicines may increase the chance of unwanted effects, especially if you are an elderly patient.

Be sure to take MYLAN-NABUMETONE regularly as prescribed. Try to take your tablets at the same time each day. The effect of MYLAN-NABUMETONE is evident early in treatment, however, in some types of arthritis, up to 1 week may pass before you feel the full relief from this medicine. It is important to keep taking MYLAN-NABUMETONE even after you start to feel better.

Generally, patients are instructed to take 1000 mg once a day. During treatment, your doctor may decide to increase the dosage up to 2000 mg each day, according to your response to the medication. In that case it may be divided in two doses per day.

Stomach upset is one of the common problems with NSAIDs. To lessen stomach upset, take this medicine immediately after a meal or with food or milk. You should swallow the tablets whole, with water or milk. Do not chew them. You should remain standing or sitting upright (i.e., do not lie down) for about 15 to 30 minutes after taking the medicine. This helps to prevent irritation that may lead to trouble swallowing. If stomach upset (indigestion, nausea, vomiting, stomach pain or diarrhea) occurs and continues, contact your doctor.

If you are prescribed this medication for use over a long period of time, your doctor will check your health during regular visits to assess your progress and to ensure that this medicine is not causing unwanted effects.

Important: Your doctor may give you different instructions better suited to your specific needs. If you need more information on how to take MYLAN-NABUMETONE properly, double check with your doctor or pharmacist.

Overdose:

In case of drug overdose, contact a health care practitioner, hospital emergency department or regional Poison Control Centre immediately, even if there are no symptoms.

Missed Dose:

If you forget to take a tablet, leave out that dose completely. Take your next dose at the normal time it is due.

SIDE EFFECTS AND WHAT TO DO ABOUT THEM

Any medication can cause side effects. Most people tolerate the medicine well. Elderly, frail or debilitated patients often seem to experience more frequent or more serious side effects. The most common adverse effects associated with MYLAN-NABUMETONE are gastrointestinal, such as diarrhea, indigestion, abdominal pain, nausea, constipation and flatulence (i.e., large amounts of gas in the intestines). Stomach problems may be more likely to occur if you drink alcoholic beverages. Therefore, do not drink alcoholic beverages while taking this medication.

Other side effects such as headaches, tiredness, dizziness, sleepiness, insomnia (i.e., not able to sleep) have also been

observed. If dizziness occurs after taking MYLAN-NABUMETONE, do not drive or operate machinery.

Consult your doctor if these symptoms become troublesome.

SERIOUS SIDE EFFECTS, HOW OFTEN THEY HAPPEN AND WHAT TO DO ABOUT THEM

Consult your doctor if the following occur:

- shortness of breath, wheezing, troubled breathing or tightness in chest
- blurred vision or any visual disturbance, ringing in the ears or hearing problems
- skin rash, hives, swelling or itching
- swelling of face, feet or lower legs
- vomiting or persistent indigestion, nausea, stomach pain or diarrhea
- yellow discoloration of the skin or eyes
- any change in the amount of, or colour of your urine (dark red or brown)
- any pain or difficulty experienced while urinating
- malaise, fatigue, loss of appetite
- mental confusion, depression, dizziness, lightheadedness

If you develop a skin rash or asthma while you are taking MYLAN-NABUMETONE, do not take any more tablets and contact your doctor at once.

Check with your doctor immediately if you experience unexpected weakness while taking this medication, or if you vomit any blood or have dark or bloody stools.

Some people may become more sensitive to sunlight than they are normally. Exposure to sunlight or sunlamps, even for brief periods of time, may cause sunburn, blisters on the skin, skin rash, redness, itching or discoloration; or vision changes. If you have a reaction from the sun, check with your doctor.

Check with your doctor immediately if chills, fever, muscle aches or pains, or other flu like symptoms occur, especially if they occur shortly before, or together with, a skin rash.

Very rarely, these effects may be the first signs of a serious reaction to this medication.

This is not a complete list of side effects. For any unexpected effects while taking MYLAN-NABUMETONE, contact your doctor or pharmacist.

HOW TO STORE IT

Store your tablets in a dry place at room temperature in the original container provided by the pharmacy. Keep this medication out of reach of children. Do not keep outdated medicine or medicine no longer needed.

REPORTING SUSPECTED SIDE EFFECTS

You can report any suspected adverse reactions associated with the use of health products to the Canada Vigilance Program by one of the following 3 ways:

- 1. Report online at www.healthcanada.gc.ca/medeffect**
- 2. Call toll-free at 1-866-234-2345**
- 3. Complete a Canada Vigilance Reporting Form and:**
 - Fax toll-free to 1-866-678-6789, or**
 - Mail to: Canada Vigilance Program**
Health Canada
Postal Locator 0701D
Ottawa, ON K1A 0K9

Postage paid labels, Canada Vigilance Reporting Form and the adverse reaction reporting guidelines are available on the MedEffect™ Canada Web site at www.healthcanada.gc.ca/medeffect.

NOTE: Should you require information related to the management of side effects, contact your health professional. The Canada Vigilance Program does not provide medical advice.

MORE INFORMATION

This document plus the full product monograph, prepared for health professionals can be found at:
<http://www.mylan.ca>

or by contacting the sponsor, Mylan Pharmaceuticals ULC at:
1-800-575-1379

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