

PRODUCT MONOGRAPH

PrTARO-CEFPROZIL

cefprozil for oral suspension USP

(125 mg/5 mL and 250 mg/5 mL of cefprozil as cefprozil monohydrate, when reconstituted)

USP

Antibiotic

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PART I: HEALTH PROFESSIONAL INFORMATION

SUMMARY PRODUCT INFORMATION

Route of Administration	Dosage Form / Strength	Clinically Relevant Nonmedicinal Ingredients
Oral	Powder for Oral Suspension, 125 mg/5 mL and 250 mg/5 mL	Sucrose <i>For a complete listing see Dosage Forms, Composition and Packaging section.</i>

INDICATIONS AND CLINICAL USE

TARO-CEFPROZIL (cefprozil) is indicated for the treatment of the following infections caused by susceptible strains of the designated microorganisms:

Upper Respiratory Tract

Pharyngitis / tonsillitis caused by group A β -hemolytic (GABHS) *Streptococcus pyogenes*.

Substantial data establishing the efficacy of cefprozil in the subsequent prevention of rheumatic fever are not available at present, although no case was reported during its evaluation in over 978 pediatric and 831 adult patients in controlled clinical trials.

Otitis media caused by *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Moraxella (Branhamella) catarrhalis*.

Acute sinusitis caused by *Streptococcus pneumoniae*, *Haemophilus influenzae*, (beta-lactamase positive and negative strains), and *Moraxella (Branhamella) catarrhalis*.

Skin And Skin Structure

Uncomplicated skin and skin-structure infections caused by *Staphylococcus aureus* (including penicillinase-producing strains) and *Streptococcus pyogenes*.

Urinary Tract

Uncomplicated urinary tract infections (including acute cystitis) caused by *Escherichia coli*, *Klebsiella pneumoniae*, *Proteus mirabilis*.

Cultures and susceptibility studies should be performed when appropriate.

To reduce the development of drug-resistant bacteria and maintain the effectiveness of TARO-CEFPROZIL and other antibacterial drugs, TARO-CEFPROZIL should be used only to treat infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

CONTRAINDICATIONS

TARO-CEFPROZIL (cefprozil) is contraindicated in patients with known allergy to the cephalosporin class of antibiotics or to any component of the Cefprozil preparations.

WARNINGS AND PRECAUTIONS

Serious Warnings and Precautions

BEFORE THERAPY WITH TARO-CEFPROZIL (CEFPROZIL) IS INSTITUTED, CAREFUL INQUIRY SHOULD BE MADE TO DETERMINE WHETHER THE PATIENT HAS HAD PREVIOUS HYPERSENSITIVITY REACTIONS TO CEFPROZIL, CEPHALOSPORINS, PENICILLINS, OR OTHER DRUGS. IF THIS PRODUCT IS TO BE GIVEN TO PENICILLIN-SENSITIVE PATIENTS, CAUTION SHOULD BE EXERCISED BECAUSE CROSS-SENSITIVITY AMONG BETA-LACTAM ANTIBIOTICS HAS BEEN CLEARLY DOCUMENTED AND MAY OCCUR IN UP TO 10% OF PATIENTS WITH A HISTORY OF PENICILLIN ALLERGY.

If an allergic reaction to TARO-CEFPROZIL occurs, discontinue the drug. Serious acute hypersensitivity reactions may require treatment with epinephrine and other emergency measures, including oxygen, intravenous fluids, intravenous antihistamines, corticosteroids, pressor amines, and airway management, as clinically indicated.

General

Prolonged use of TARO-CEFPROZIL may result in the overgrowth of nonsusceptible organisms. Careful observation of the patient is essential. If superinfection occurs during therapy, appropriate measures should be taken.

Positive direct Coombs tests have been reported during treatment with cephalosporin antibiotics.

Severe Cutaneous Adverse Reactions

Severe cutaneous adverse reactions (SCAR) such as acute generalized exanthematous pustulosis

(AGEP), drug reaction with eosinophilia and systemic symptoms (DRESS), Stevens-Johnson syndrome (SJS), and toxic epidermal necrolysis (TEN) have been reported in association with beta-lactam treatment. When SCAR is suspected, TARO-CEFPROZIL should be discontinued and appropriate therapy and/or measures should be taken.

Gastrointestinal

Treatment with antibacterial agents alters the normal flora of the colon and may permit overgrowth of clostridia. Studies indicate that a toxin produced by *Clostridium difficile* is one primary cause of “antibiotic-associated colitis”. Pseudomembranous colitis is associated with the use of broad spectrum antibiotics (including macrolides, semisynthetic penicillins and cephalosporins) and may range in severity from mild to life-threatening. Therefore, it is important to consider this diagnosis in patients who present with diarrhea subsequent to the administration of antibacterial agents.

After the diagnosis of pseudomembranous colitis has been established, therapeutic measures should be initiated. Mild cases of pseudomembranous colitis usually respond to drug discontinuation alone. In moderate to severe cases, consideration should be given to management with fluids and electrolytes, protein supplementation, and treatment with an oral antibacterial drug effective against *C. difficile* (e.g., metronidazole).

Renal

Evaluation of renal status before and during therapy is recommended, especially in seriously ill patients. In patients with known or suspected renal impairment (see DOSAGE AND ADMINISTRATION), careful clinical observation and appropriate laboratory studies should be done prior to and during therapy. The total daily dose of TARO-CEFPROZIL (cefprozil) should be reduced in patients with creatinine clearance values ≤ 30 mL/min because high and/or prolonged plasma antibiotic concentrations can occur from usual doses in such individuals. Cephalosporins, including TARO-CEFPROZIL, should be given with caution to patients receiving concurrent treatment with potent diuretics since these agents are suspected of adversely affecting renal function.

Special Populations

Pregnant Women

Reproduction studies have been performed in mice, rats, and rabbits at doses 14, 7 and 0.7 times the maximum human daily dose (1000 mg) based upon mg/m², and have revealed no evidence of harm to the fetus due to cefprozil. There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if the potential benefit justifies the potential risk.

Nursing Women

Less than 1.0% of a maternal dose is excreted in human milk. Caution should be exercised when TARO-CEFPROZIL is administered to a nursing mother. Consideration should be given to

temporary discontinuation of nursing and use of formula feeding.

Pediatrics

The use of TARO-CEFPROZIL in the treatment of acute sinusitis in these age groups is supported by evidence from adequate and well-controlled studies of cefprozil in adults and from pediatric pharmacokinetic studies.

Safety and effectiveness in children below the age of 6 months have not been established. Accumulation of other cephalosporin antibiotics in newborn infants (resulting from prolonged drug half-life in this age group) has been reported.

Geriatrics

Cefprozil has not been studied in the chronically ill or institutionalized elderly subjects. In these subjects, drug clearance by the kidney may be reduced even with normal serum creatinine clearance. Reduction of dose or of frequency of administration may be indicated.

ADVERSE REACTIONS

Clinical Trial Adverse Drug Reactions

Because clinical trials are conducted under very specific conditions the adverse drug 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 adverse reactions to cefprozil are similar to those observed with other orally administered cephalosporins. Cefprozil was usually well tolerated in controlled clinical trials. Approximately 2% of patients discontinued cefprozil therapy due to adverse events.

Most Common Clinical Trial Adverse Drug Reactions (> 1%)

Body System	Adverse Events considered likely to be Drug-Related (n = 4227)	
	Event	Percentage of Patients with ADR
Gastrointestinal System	Diarrhea	2.7
	Nausea	2.3
	Vomiting	1.4
Skin/Hypersensitivity	Rash	1.2

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

Hepatobiliary: As with some penicillins and some other cephalosporin antibiotics, cholestatic jaundice has been reported rarely.

Hypersensitivity: Erythema (0.1%), pruritus (0.3%) and urticaria (0.07%). Such reactions have been reported more frequently in children than in adults. Signs and symptoms usually occur a few days after initiation of therapy and subside within a few days after cessation of therapy.

Gastrointestinal: Abdominal pain (0.9%)

CNS: Confusion, dizziness, drowsiness, headache, hyperactivity, insomnia and nervousness. Causal relationship is uncertain and all were reversible.

Other: Genital pruritus (0.8%) and vaginitis (0.7%).

Abnormal Hematologic and Clinical Chemistry Findings

Laboratory abnormalities

Transitory abnormalities in clinical laboratory test results of uncertain etiology have been reported during clinical trials as follows:

Hepatobiliary: Elevations of AST, ALT, alkaline phosphatase, and bilirubin.

Hematopoietic: Transiently decreased leukocyte count and eosinophilia.

Renal: Slight elevations in BUN and serum creatinine.

Post-Market Adverse Drug Reactions

Adverse reactions reported from post-marketing experience and which were not seen in the clinical trials include serum sickness, pseudomembranous colitis, Stevens-Johnson syndrome and exfoliative dermatitis. The association between these events and Cefprozil administration is unknown.

In addition to the adverse reactions listed above which have been observed in patients treated with cefprozil, the following adverse reactions and altered laboratory tests have been reported for cephalosporin-class antibiotics. Anaphylaxis, erythema multiforme, toxic epidermal necrolysis, fever, renal dysfunction, toxic nephropathy, aplastic anemia, hemolytic anemia, hemorrhage, prolonged prothrombin time, positive Coombs's tests, elevated LDH, pancytopenia, neutropenia, agranulocytosis, thrombocytopenia.

Several cephalosporins have been implicated in triggering seizures, particularly in patients with renal impairment, when the dosage was not reduced. (See DOSAGE AND ADMINISTRATION and OVERDOSAGE). If seizures associated with drug therapy occur, the drug should be discontinued. Anticonvulsant therapy can be given if clinically indicated.

Susceptibility/Resistance

Development of Drug Resistant Bacteria

Prescribing TARO-CEFPROZIL in the absence of a proven or strongly suspected bacterial infection is unlikely to provide benefit to the patient and risks the development of drug-resistant bacteria.

DRUG INTERACTIONS

Drug-Drug Interactions

Nephrotoxicity has been reported following concomitant administration of aminoglycoside antibiotics and cephalosporin antibiotics. Concomitant administration of probenecid doubled the area under the curve for cefprozil.

If an aminoglycoside is used concurrently with cefprozil, especially if high dosages of the former are used or if therapy is prolonged, renal function should be monitored because of the potential nephrotoxicity and ototoxicity of aminoglycoside antibiotics.

Drug/Laboratory Interactions

Cephalosporin antibiotics may produce a false positive reaction for glucose in the urine with copper reduction tests (Benedict's or Fehling's solution or with Clinitest tablets), but not with enzyme-based tests (glucose oxidase) for glycosuria. A false negative reaction may occur in the ferricyanide test for blood glucose. The presence of cefprozil in the blood does not interfere with the assay of plasma or urine creatinine by the alkaline picrate method.

DOSAGE AND ADMINISTRATION

TARO-CEFPROZIL (cefprozil) is administered orally (with or without food), in the treatment of infections due to susceptible bacteria in the following doses:

Adults (13 years and older)	
Upper respiratory tract (Pharyngitis/Tonsillitis)	500 mg q24h
Acute sinusitis	250 mg or 500 mg q12h
Skin and skin structure	250 mg q12h or 500 mg q24h
Uncomplicated urinary tract	500 mg q24h

Children (2 years – 12 years)					
Skin and skin structure		20 mg/kg q24h			
Age* (years)	Weight (kg)	Multi-dose bottle			
		125 mg/5 mL		250 mg/5 mL	
		tsp/dose	mL/dose	tsp/dose	mL/dose
2-3	11-14	2.0	10.0	1.0	5.0

4-6	15-21	3.0	15.0	1.5	7.5
7-8	22-26	---	---	2.0	10.0
9-10	28-31	---	---	2.5	12.5
11	35	---	---	3.0	15.0

* Ages given are a useful guide only. Correct dosage should be determined by weight.

Infants and children (6 months – 12 years)					
Otitis media			15 mg/kg q12h		
Age* (years)	Weight (kg)	Multi-dose bottle			
		125 mg/5 mL		250 mg/5 mL	
		tsp/dose	mL/dose	tsp/dose	mL/dose
6 mos. – 1 yr	7-9	1.0	5.0	0.5	2.5
2	11-12	1.5	7.5	0.75	3.75
3-4	14-15	---	---	1.0	5.0
5-6	17-21	---	---	1.25	6.25
7-8	22-26	---	---	1.5	7.5
9-10	28-31	---	---	1.75	8.75
11-12	35-39	---	---	2.0	10.0

Upper respiratory tract (pharyngitis/tonsillitis)			7.5 mg/kg q12h		
Age* (years)	Weight (kg)	Multi-dose bottle			
		125 mg/5 mL		250 mg/5 mL	
		tsp/dose	mL/dose	tsp/dose	mL/dose
6 mos. – 1 yr	7-9	0.5	2.5	---	---
2-6	11-21	1.0	5.0	0.5	2.5
7-9	22-28	---	---	0.75	3.75
10-11	31-35	---	---	1.0	5.0
12	41	---	---	1.25	6.25

* Ages given are a useful guide only. Correct dosage should be determined by weight.

Acute sinusitis 7.5 mg/kg q12h or 15 mg/kg q12h
 Follow dosing instructions as for otitis media and upper respiratory tract presented above.

The maximum pediatric daily dose should not exceed the maximum daily dose recommended for adults (i.e. 1 g per day).

Duration of Therapy

Duration of therapy in the majority of clinical trials was 10 to 15 days. The duration of treatment should be guided by the patient's clinical and bacteriological response. In the treatment of acute uncomplicated cystitis, a 7 day oral therapy is usually sufficient. In the treatment of infections due to *Streptococcus pyogenes*, a therapeutic dosage of cefprozil should be administered for at least 10 days.

Renal Impairment

Cefprozil may be administered to patients with impaired renal function. No dosage adjustment is necessary for patients with creatinine clearance values > 30 mL/min. For those with creatinine clearance values ≤ 30 mL/min, 50% of the standard dose should be given at the standard dosing interval. Cefprozil is in part removed by hemodialysis; therefore, cefprozil should be administered after the completion of hemodialysis.

OVERDOSAGE

Since no case of overdosage has been reported to date, no specific information on symptoms or treatment of overdosage is available. In animal toxicology studies, single doses as high as 5000 mg/kg were without serious or lethal consequences.

Cefprozil is eliminated primarily by the kidneys. In case of severe overdosage, especially in patients with compromised renal function, hemodialysis will aid in the removal of cefprozil from the body.

ACTION AND CLINICAL PHARMACOLOGY

Mechanism of Action

Cefprozil is a semi synthetic broad spectrum cephalosporin antibiotic intended for oral administration. It has *in vitro* activity against a broad range of gram positive and gram negative bacteria. The bactericidal action of cefprozil results from inhibition of cell-wall synthesis.

Pharmacokinetics

Cefprozil is well absorbed following oral administration in both fasting and non-fasting subjects. The oral bioavailability of cefprozil is about 90%. The pharmacokinetics of cefprozil are not altered when administered with meals, or when co-administered with antacid. Average plasma concentrations after administration of cefprozil to fasting subjects are shown in the following table. Urinary recovery accounts for 60% of the administered dose.

Dosage	Mean Plasma Cefprozil* Concentrations (mcg/mL)			8-hour Urinary Excretion
	Peak ~1.5 hr	4 hr	8 hr	
250 mg	6.1	1.7	0.2	60%
500 mg	10.5	3.2	0.4	62%
1 g	18.3	8.4	1.0	54%

* Data represent mean values from 12 healthy, young male volunteers.

During the first four-hour period after drug administration, the average urine concentrations following the 250 mg, 500 mg, and 1 g doses were approximately 170 mcg/mL, 450 mcg/mL and 600mcg/mL, respectively.

The average plasma half-life in normal subjects is 1.3 hours. Plasma protein binding is approximately 36% and is independent of concentration in the range of 2 mcg/mL to 20 mcg/mL.

There is no evidence of accumulation of cefprozil in the plasma in individuals with normal renal function following multiple oral doses of up to 1 g every 8 hours for 10 days.

Special Populations and Conditions

Renal Insufficiency

In patients with reduced renal function, the plasma half-life prolongation is related to the degree of the renal dysfunction and may be prolonged up to 5.2 hours. In patients with complete absence of renal function, the plasma half-life of cefprozil averaged 5.9 hours. The half-life is shortened during hemodialysis to 2.1 hours. Excretion pathways in patients with markedly impaired renal function have not been determined. (See WARNINGS AND PRECAUTIONS and DOSAGE AND ADMINISTRATION).

Hepatic Insufficiency

In patients with impaired hepatic function, no differences in pharmacokinetic parameters were observed, when compared to normal control subjects.

Geriatrics

Following administration of a single 1 g dose of cefprozil, the average AUC observed in healthy elderly subjects (≥ 65 years of age) was approximately 35-60% higher than that of healthy young adults and the average AUC in females was approximately 15-20% higher than in males. The magnitude of these age and gender-related variations in the pharmacokinetics of cefprozil are not sufficient to necessitate dosage adjustments.

Pediatrics

Comparable pharmacokinetic parameters of cefprozil are observed between pediatric patients (6 months - 12 years) and adults following oral administration. The maximum plasma concentrations are achieved at 1 - 2 hours after dosing. The plasma elimination half-life is approximately 1.5 hours. The AUC of cefprozil to pediatric patients after 7.5, 15 and 30 mg/kg doses is similar to that observed in normal adult subjects after 250, 500 and 1000 mg doses, respectively.

STORAGE AND STABILITY

TARO-CEFPROZIL Powder for Oral Suspension should be stored at room temperature (15° to 30°C). Protect from light and excessive humidity.

RECONSTITUTION

Prior to dispensing, the pharmacist must constitute the dry powder with water as follows:

TARO- CEFPROZIL powder for oral suspension	Bottle size (mL)	Diluent (water) added to bottle (mL)	Approximate available volume (mL)	Final concentration
125 mg/5 mL	50	40	50	125 mg/5 mL
	75	60	75	125 mg/5 mL
	100	80	100	125 mg/5 mL
250 mg/5 mL	50	36	50	250 mg/5 mL
	75	54	75	250 mg/5 mL
	100	72	100	250 mg/5 mL

For ease in preparation, the water can be added in two portions. Shake well after each addition and prior to use.

STORAGE OF RECONSTITUTED SUSPENSION

The reconstituted TARO-CEFPROZIL oral suspension must be stored in the refrigerator (2°C - 8°C) for up to 14 days. Keep container tightly closed. Discard unused portion after 14 days.

DOSAGE FORMS, COMPOSITION AND PACKAGING

TARO-CEFPROZIL Powder for Oral Suspension:

TARO-CEFPROZIL powder for oral suspension contains cefprozil monohydrate equivalent to 125 mg or 250 mg of cefprozil per 5 mL of constituted solution.

TARO-CEFPROZIL powder for oral suspension is available as yellowish pink colored granular powder forming yellowish pink colored suspension on constitution with water. The resulting suspension has a characteristic fruity flavor.

TARO-CEFPROZIL powder for oral suspension also contains: aspartame, citric acid anhydrous, colloidal silicon dioxide, FD&C Red # 40 aluminium lake, FD&C yellow # 6 aluminium lake, flavor fruit gum 912, flavor cherry 594 SD, glycine, polysorbate 80, simethicone emulsion, sodium benzoate, sodium chloride, microcrystalline cellulose & carboxymethylcellulose sodium, carboxymethyl cellulose sodium and sucrose.

TARO-CEFPROZIL 125 mg/5mL and 250 mg/5 mL Powder for Oral Suspension are available in bottles of 50 mL, 75 mL and 100 mL.

PART II: SCIENTIFIC INFORMATION

PHARMACEUTICAL INFORMATION

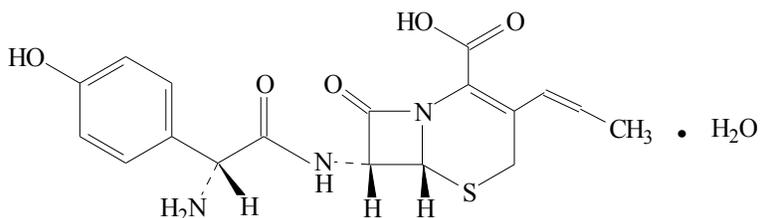
Drug Substance

Proper name: cefprozil

Chemical name: (6R,7R)-7-[(R)-2-amino-2-(p-hydroxyphenyl) acetamido]-8-oxo-3-propenyl-5-thia-1-azabicyclo [4.2.0] oct-2-ene-2-carboxylic acid

Molecular formula (molecular mass): $C_{18}H_{19}N_3O_5S \cdot H_2O$ (407.44 g/mol)

Structural formula:



Physicochemical properties: Cefprozil is a cis and trans isomeric mixture in a 9:1 ratio. It is a white to yellow coloured crystalline powder with a melting point of 197°C. It is slightly soluble in water and practically insoluble in alcohol. Cefprozil has an apparent octanol / water partition coefficient of 0.01 at pH6 and 22°C.

CLINICAL TRIALS

A blinded, randomized, single-dose, crossover comparative bioequivalence study was performed in 35 healthy male and female volunteers under fasting conditions for TARO-CEFPROZIL Powder for Oral Suspension. The study compared the rate and extent of absorption of a single oral dose of cefprozil powder for oral suspension following the administration of TARO-CEFPROZIL (250 mg cefprozil/5mL) or Cefzil[®] Bristol-Myers Squibb Canada Inc. (250 mg cefprozil/5 mL). A summary of the pharmacokinetic parameters is given in the tables below:

Cefprozil (A single 250 mg dose: 5 mL of 250 mg/5 mL) From measured data Geometric Mean Arithmetic Mean (CV %)				
Parameter	Test*	Reference[†]	% Ratio of Geometric Means	90% Confidence Interval
AUC _T	13.6470	12.3294	111	108 – 114
(mcg x hr/mL)	14.198 (29.7%)	12.754 (28.7%)		
AUC _I	13.9462	12.6137	111	108 – 114
(mcg x hr/mL)	14.491 (29.3%)	13.039 (28.5%)		
C _{max}	4.9396	4.7046	105	101 – 109
(mcg/mL)	5.138 (30.0%)	4.884 (28.9%)		
T _{max} [§]	1.194 (25.5%)	1.164 (20.1%)		
(hrs)				
T _½ [§]	1.401 (16.4%)	1.360 (17.7%)		
(hrs)				

*TARO-Cefprozil 250 mg/5 mL Powder for Oral Suspension (Sun Pharma Canada Inc.).

[†]CEFZIL[™] 250 mg/5 mL Powder for Oral Suspension (Bristol-Myers Squibb Canada Inc.).

[§] Expressed as the arithmetic mean (CV%) only.

MICROBIOLOGY

Cefprozil has *in vitro* activity against a broad range of gram-positive and gram-negative bacteria. The bactericidal action of cefprozil results from inhibition of cell-wall synthesis. Cefprozil is more stable than cefaclor to beta lactamase hydrolysis by plasmid-encoded penicillinases including TEM and *S. aureus* enzymes as well as class Ia, Ib, Ic and Id enzymes.

The *in vitro* activity of cefprozil against clinical isolates is shown below:

Organism	Number of Isolates	Low MIC	High MIC	MIC ₅₀ mcg/mL	MIC ₉₀ mcg/mL
<i>Corynebacterium Sp.</i>	13	≤ 0.008	4.000	< 0.008	0.104
<i>S. faecalis</i>	77	0.500	16.000	5.369	8.211
<i>Strep. (Group A)</i>	309	≤ 0.008	1.000	0.015	0.088
<i>Strep. (Beta hemolytic)</i>	1	0.016	0.016		
<i>S. agalactiae</i>	1	0.250	0.250		
<i>S. intermedius</i>	1	0.125	0.125		
<i>Strep. (Group G)</i>	32	≤ 0.008	0.500	0.025	0.150
<i>Strep. (Group C)</i>	28	0.016	0.500	0.018	0.339
<i>Enterococcus</i>	2	8.000	8.000		
<i>Strep. (Group F)</i>	8	0.064	1.000	0.157	
<i>S. salivarius</i>	1	0.064	0.064		
<i>Strep. (Group B)</i>	48	0.016	0.500	0.084	0.287
<i>S. mitis</i>	13	≤0.008	2.000	0.117	0.451
<i>S. constellatus</i>	1	0.500	0.500		
<i>S. sanguis</i>	17	0.064	2.000	0.149	1.110
<i>S. aureus</i>	344	0.064	8.000	0.863	2.109
<i>S. epidermidis</i>	145	0.016	31000	0.341	3.123
<i>S. saprophyticus</i>	21	0.500	4.000	0.728	1.653
<i>S. hominis</i>	21	0.032	> 128.000	0.375	1.932
<i>S. capitis</i>	9	0.016	0.125	0.025	
<i>S. simulans</i>	6	0.032	0.500	0.125	
<i>S. haemolyticus</i>	15	0.032	>128.000	0.445	3.364
<i>S. cohnii</i>	3	0.250	1.000		
<i>S. warneri</i>	8	0.016	0.500	0.091	
<i>S. xylosum</i>	2	0.250	0.500		
<i>Micrococcus Sp.</i>	2	0.032	0.250		
<i>Aerococcus Sp.</i>	1	1.000	1.000		
<i>S. pneumoniae</i>	126	≤ 0.008	1.000	0.042	0.316
<i>P. aeruginosa</i>	35	> 128.000	> 128.000	> 128.000	>128.000
<i>P. maltophilia</i>	9	> 128.000	> 128.000	>128.000	
<i>P. fluorescens</i>	2	> 128.000	> 128.000		
<i>P. paucimobilis</i>	1	2.000	2.000		
<i>P. vesicularis</i>	1	32.000	32.000		
<i>P. putida</i>	5	> 128.000	> 128.000	> 128.000	

Organism	Number of Isolates	Low MIC	High MIC	MIC ₅₀ mcg/mL	MIC ₉₀ mcg/mL
<i>P. cepacia</i>	1	> 128.000	> 128.000		
<i>Pseudomonas Sp. VE-2</i>	1	> 128.000	> 128.000		
<i>P. mendocina</i>	1	> 128.000	> 128.000		
<i>P. acidovorans</i>	1	> 128.000	> 128.000		
<i>E. coli</i>	551	0.064	> 128.000	1.223	4.948
<i>C. freundii</i>	14	0.500	> 128.000	11.314	>78.793
<i>C. diversus</i>	9	0.500	8.000	0.749	
<i>K. pneumoniae</i>	68	0.032	32.000	0.660	1.711
<i>K. ozaenae</i>	1	4.000	4.000		
<i>K. oxytoca</i>	11	0.125	32.000	1.122	7.464
<i>E. cloacae</i>	38	8.000	> 128.000	38.055	> 128.000
<i>E. aerogenes</i>	15	16.000	> 128.000	24.675	> 76.109
<i>E. sakazakii</i>	1	8.000	8.000		
<i>E. geroviae</i>	2	2.000	8.000		
<i>H. alvei</i>	1	16.000	16.000		
<i>S. marcescens</i>	10	4.000	> 128.000	> 128.000	> 128.000
<i>P. mirabilis</i>	66	0.250	8.000	3.143	6.662
<i>P. vulgaris</i>	3	> 128.000	> 128.000		
<i>M. morgani</i>	7	4.000	> 128.000	> 128.000	
<i>P. stuartii</i>	1	16.000	16.000		
<i>E. agglomerans</i>	8	0.500	> 128.000	2.000	
<i>H. influenzae</i>	11	0.125	8.000	0.771	3.864
<i>H. influenzae (P+)</i>	14	1.000	16.000	2.692	6.964
<i>H. influenzae (P-)</i>	77	0.250	32.000	0.887	4.550
<i>H. parainfluenzae</i>	9	0.016	1.000	0.223	
<i>H. parainfluenzae (P+)</i>	1	1.000	1.000		
<i>Flavobacterium Sp.</i>	1	1.000	1.000		
<i>A. anitratus</i>	22	4.000	> 128.000	84.449	> 128.000
<i>A. lwoffii</i>	17	1.000	> 128.000	8.980	> 95.339
<i>A. haemolyticus</i>	1	64.000	64.000		
<i>M. catarrhalis</i>	9	0.500	4.000	0.917	
<i>M. catarrhalis (P+)</i>	32	0.064	4.000	0.707	2.297
<i>M. catarrhalis (P-)</i>	4	0.032	2.000	0.045	
<i>A. hydrophilia</i>	1	1.000	1.000		

Cefprozil is inactive against methicillin resistant *Staphylococci*, *Enterococcus faecium*, most strains of *Acinetobacter*, *Enterobacter*, *Morganella morgani*, *Proteus vulgaris*, *Providencia*, *Pseudomonas* and *Serratia*.

Susceptibility tests

Diffusion Techniques

Quantitative methods that require measurement of zone diameters give the most precise estimate of the susceptibility of bacteria to antimicrobial agents. Interpretation involves correlation of the diameter obtained in the disk test with the minimum inhibitory concentration (MIC) for cefprozil.

The class disk for cephalosporin susceptibility testing (the cephalothin disk) is not appropriate because of spectrum differences with cefprozil. The 30 mcg cefprozil disk should be used for all *in vitro* testing of isolates and should be interpreted according to the following criteria:

Zone diameter (mm)	Interpretation
≥ 18	(S) Susceptible
15-17	(MS) Moderately Susceptible
≤ 14	(R) Resistant

A report of "Susceptible" indicates that the pathogen is likely to be inhibited by generally achievable blood concentrations. A report of "Moderately Susceptible" indicates that the organism would be susceptible if high dosage is used or if the infection is confined to tissues and fluids (e.g., urine) in which high antibiotic levels are attained. A report of "Resistant" indicates that the achievable concentration of the antibiotic is unlikely to be inhibitory.

Standardized procedures require the use of laboratory control organisms. The 30-mcg cefprozil disk should give the following zone diameters:

Organism	Zone diameter (mm)
<i>Escherichia coli</i> ATCC 25922	21-27
<i>Staphylococcus aureus</i> ATCC 25923	27-33

Dilution Techniques

Use a standardized dilution method (broth, agar, microdilution) or equivalent with cefprozil powder. The MIC values obtained should be interpreted according to the following criteria:

MIC (mcg/mL)	Interpretation
≤ 8	(S) Susceptible
16	(MS) Moderately Susceptible
≥ 32	(R) Resistant

As with standard diffusion techniques, dilution techniques require the use of laboratory control organisms. Standard cefprozil powder should give the following MIC values:

Organism	MIC (mcg/mL)
<i>Enterococcus faecalis</i> ATCC 29212	4-16
<i>Escherichia coli</i> ATCC 25922	1-4
<i>Pseudomonas aeruginosa</i> ATCC 27853	> 32
<i>Staphylococcus aureus</i> ATCC 29213	0.25 - 1

TOXICOLOGY

Acute Toxicity

Species/Strain	Sex (N)	Route	Estimated LD ₅₀ (mg/kg)
Mouse Swiss-Webster	M (5) F (5)	Oral gavage (200 mg/mL suspension)	> 5000
Rat Sprague-Dawley	M (5) F (5)	Oral gavage (200 mg/mL suspension)	> 5000
Rat Sprague-Dawley	M (15)** F (15)**	Oral gavage (250 mg/mL suspension) *CMC 0.5%	> 5000
Monkey Cynomolgus	M (1) F (1)	Oral gavage (200 mg/mL suspension)	> 3000
Mouse Swiss-Webster	M (5) F (5)	I.P.	> 5000
Mouse Swiss-Webster	M (5) F (5)	Subcutaneous	> 5000

* CMC = Carboxymethyl cellulose

** Includes 5 neonates, 5 weanlings and 5 adults

No deaths occurred.

The only sign of toxicity in mice was a decreased body weight gain in males given cefprozil by oral gavage.

There were no signs of toxicity in neonatal (5 days of age), weanling (23 days of age) or adult (7 weeks) rats following administration of cefprozil 5000 mg/kg by oral gavage.

Signs of toxicity in monkeys included soft or liquid stools and sporadically disturbed appetite.

Subacute Toxicity

Species/Strain	Sex	N/Group	Cefprozil Dosage (mg/kg/day)	Route	Duration	Effects
Rat (CD/Charles River)	M F	10 10	0, 250, 750, 1500 (*CMC 0.5%)	Oral gavage	4 weeks	Slight increase in kidney weight with reduction in serum creatinine and BUN but no corresponding urinalysis, or microscopic pathology in (M) given 750 or 1500 mg/kg. Minimal focal erosion of gastric mucosa for 3 of 20 rats at 1500 mg/kg. Transient soft stools during second week and gross and microscopic dilatation of colon and cecum attributed to enteral antibiotic effect.
Monkey (Cynomolgus)	M F	2 2	0, 50, 200, 600	Oral gavage	1 month	Salivation after dosing at 600 mg/kg/day. No consistent pathologic changes. Dose related incidence of soft or liquid stools attributed to enteral antibiotic effect.
Rat (CD/Charles River)	M F	20 20	0, 250, 750, 1500 (CMC 0.5%)	Oral gavage	3 months + 1 month recovery	Reversible slight increases in serum creatine kinase and alanine transaminase and in kidney weights at 750 and 1500 mg/kg. No morphologic gross or microscopic pathology.
Monkey (Cynomolgus)	M F	3 or 4 3 or 4	0, 50, 150, 600 (CMC 0.5%)	Oral gavage	3 months + 1 month recovery	No consistent toxicologic change. Transient body weight loss for 2 males at 600 mg/kg dose level. No pathologic changes. Dose related incidence of diarrhea (reversible, and attributed to enteral antibiotic effect).
Monkey (Cynomolgus)	M F	2 2	0, 25, 50 (0.9% sodium chloride)	I.V.	2 weeks	No consistent toxicologic change. No morphologic gross or microscopic pathology. Transient mild to moderate discoloration was noted at injection sites across all treated and control groups.

*CMC = carboxymethylcellulose

Chronic toxicity

Species/Strain	Sex	N/Group	Cefprozil Dosage (mg/kg/day)	Route	Duration	Effects
Rat (Sprague-Dawley)	M F	25 25	0, 150, 300, 900 (*CMC 0.5%)	Oral gavage	26 weeks + 12-13 week recovery	No evidence of overt toxicity. Transient increase in food (M and F) and water (M) consumption at start of dosing and increased food consumption in (M) at end of dosing. Reversible kidney weight increase. No clinicopathologic or histopathologic changes.
Monkey (Cynomolgus)	M F	4 or 6 4 or 6	0, 50, 150, 600 (CMC 0.5%)	Oral gavage	26 weeks + 4 week recovery	Reversible diarrhea, rectal prolapse, emesis, salivation upon dosing at 600 mg/kg. Menstrual cycle, body weight, and food consumption unaffected. No consistent change in clinical pathology, necropsy or histopathology. Diarrhea during first month at 50 and 150 mg/kg doses attributed to enteral antibiotic effect.

*CMC = carboxymethyl cellulose

Reproduction and Teratology

Species/Strain	No. of Animals and Sex/ Dose	Cefprozil Doses and Frequency	Route	Results
SEGMENT I				
Rat (Sprague-Dawley)	20 M, 35 F	0, 250, 750 or 1500 mg/kg as follows: M: at least 70 days before mating and during mating. F: 14 days before mating through Day 21 pregnancy or Day 21 postpartum.	Oral gavage *	Gestation and parturition unaffected. Copulation index slightly lower than controls for treated rats but with no dose relationship. Minor decreases in food consumption before mating, during gestation and in body weight during lactation. No signs of teratogenicity. Higher postnatal mortality in treated groups. Slight growth inhibition in pups (M) during lactation and postweaning. No adverse effect on F, generation reproductive performance.
Rat (CrI:CoBS CD(SD)Br)	30 F	0, 100, 250 and 500 mg/kg as follows: F: 15 days prior to mating with untreated M through Day 20, of gestation or Day 21 postpartum	Oral gavage *	No effect on reproduction of F and their offspring. Incidence of alopecia was increased at 500 mg/kg dose level. Maternal body weight gain during gestation diminished at 250 and 500 dose levels.
SEGMENT II				
Mouse (CrI:CD(ICR) Br)	43 F	0, 250, 750 and 1500 mg/kg from day 6 through day 15 of gestation	Oral gavage*	No evidence of teratogenicity or embryotoxicity.
Rat (Sprague-Dawley CD)	35 F	0, 250, 750 and 1500 mg/kg from day 7 through 17 of gestation	Oral gavage	No teratogenic or embryotoxic effects. Reduced implantation with increasing dose. No effects on fetuses, on offspring and on development of pups during lactation and post-weaning.

*Suspending vehicle: Sodium carboxymethylcellulose 0.5%

Reproduction and Teratology (cont'd)

Species/Strain	No. of Animals and Sex / Dose	Cefprozil Doses and Frequency	Route	Results
SEGMENT II cont'd				
Rabbit (New Zealand White)	22 F	0, 5, 20, 40 mg/kg from day 6 through 18 of gestation	Oral gavage	Live fetuses / implantation decrease with increasing doses of cefprozil. No evidence of teratogenicity and embryotoxicity. No effect on reproductive function and body weights. No maternal toxicity.
SEGMENT III				
Rat (Sprague-Dawley CD)	22 F	0, 150, 300 and 900 mg/kg/day from day 17 through post-partum day 21	Oral gavage	No overt maternal toxicity. Increased postnatal mortality and slight growth inhibition for suckling pups from dams given 300 or 900 mg/kg/day. Physical development, neuromuscular, sensorial functions and reproduction of F ₁ pups were unaffected.

*Suspending vehicle: Sodium carboxymethylcellulose 0.5%

Special Studies

There were no testicular changes noted in special screening studies conducted with cefprozil.

No evidence of nephrotoxicity or systemic toxicity was apparent in rabbits given cefprozil by oral gavage with single doses up to 1000 mg/kg. Cefprozil administered orally at doses up to 500 mg/kg/day to neonatal male rats on postnatal days 6 through 11 resulted in neither testicular toxicity nor systemic toxicity.

In rats given either cefprozil (cis/trans isomers in a 9:1 ratio), the cis isomer or the trans isomer at 1500 mg/kg/day by oral gavage for one month, alopecia, salivation, reduced body weight in males, decreased litter weight and increased kidney weight were observed. No clinical pathology or gross or microscopic pathology was observed.

There were no remarkable differences in the toxicity of the cis isomer, the trans isomer, or cefprozil (the isomeric mixture) in rats given 1500 mg/kg/day by oral gavage for one month.

Mutagenicity and Genotoxicity

Cefprozil (cis isomer) was not mutagenic in the Ames Microbial mutagen test with *S. typhimurium* and the microbial reverse mutation assay using *E. coli*. Cefprozil (cis/trans isomers) was also not mutagenic in the forward gene mutation assay using Chinese Hamster ovary cells.

Unscheduled DNA synthesis in rat hepatocytes *in vitro* and clastogenicity in Chinese Hamster ovary cells *in vitro* or in rat bone marrow cells *in vivo* were unaffected by cefprozil (cis/trans isomers).

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PART III: CONSUMER INFORMATION

P^rTARO-CEFPROZIL

cefprozil for oral suspension USP

(125 mg/5 mL and 250 mg/5 mL of cefprozil as cefprozil monohydrate, when reconstituted)

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

Keep this information with your medicine in case you need to read it again.

ABOUT THIS MEDICATION

TARO-CEFPROZIL is the generic brand name for a drug called cefprozil.

What the medication is used for:

TARO-CEFPROZIL is used for the treatment of infections caused by bacteria (germs) such as bronchitis and infections of the ears, sinuses, skin, throat, and urinary tract.

*Antibacterial drugs like TARO-CEFPROZIL treat **only** bacterial infections. They do not treat viral infections such as the common cold. Although you may feel better early in treatment, TARO-CEFPROZIL should be used exactly as directed. Misuse or overuse of TARO-CEFPROZIL could lead to the growth of bacteria that will not be killed by TARO-CEFPROZIL (resistance).*

This means that TARO-CEFPROZIL may not work for you in the future. Do not share your medicine.

What it does:

TARO-CEFPROZIL is an antibiotic which kills the bacteria that cause infections.

When it should not be used:

Do not use if allergic to cefprozil or any of the nonmedicinal ingredients present in TARO-CEFPROZIL (See "What the important non-medicinal ingredients are" section below).

What the medicinal ingredient is:

TARO-CEFPROZIL powder for oral suspension contains the

active ingredient cefprozil as cefprozil monohydrate

What the important nonmedicinal ingredients are:

TARO-CEFPROZIL Powder for Oral Suspension: aspartame, citric acid anhydrous, colloidal silicon dioxide, FD&C Red # 40 aluminium lake, FD&C yellow # 6 aluminium lake, flavor fruit gum 912, flavor cherry 594 SD, glycine, polysorbate 80, simethicone emulsion, sodium benzoate, sodium chloride, microcrystalline cellulose & carboxymethylcellulose sodium, carboxymethyl cellulose sodium and sucrose.

What dosage forms it comes in:

Powder for Oral Suspension (125 mg/5 mL or 250 mg/5mL when reconstituted).

WARNINGS AND PRECAUTIONS

Before starting TARO-CEFPROZIL and to get the best possible treatment, be sure to tell your doctor if you:

- Are allergic to penicillins, cephalosporins, cefprozil or any other drugs.
- Are pregnant, plan to become pregnant or are breastfeeding.

Do not use for children below the age of 6 months.

Caution is required when cefprozil is used for the chronically ill or institutionalized elderly.

INTERACTIONS WITH THIS MEDICATION

Drugs that may interact with TARO-CEFPROZIL include: aminoglycoside antibiotics, and probenecid.

Before you use TARO-CEFPROZIL talk to your doctor or pharmacist.

PROPER USE OF THIS MEDICATION

Usual dose:

You must take this medication as told by your doctor. The usual dose depends on your age, weight and the type of infection that you have. The maximum daily dose for infants and children (6 months to 12 years of age) should not exceed the maximum daily dose recommended for adults which is 1 g per day.

It is important that you take all the medicine that your doctor has given you. Even if you start to feel better, all the medicine

must be taken to make sure that all the germs have been killed.

TARO-CEFPROZIL may be taken with or without food.

Shake the reconstituted suspension well before use.

Overdose:

Call your doctor or pharmacist right away in case of an overdose.

Missed Dose:

Call your doctor or pharmacist right away in case of a missed dose.

SIDE EFFECTS AND WHAT TO DO ABOUT THEM

The most common side effects are diarrhea, nausea, vomiting and abdominal pain.

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

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	
<p>Severe Cutaneous Adverse Reactions (SCAR) (severe skin reactions that may also affect other organs):</p> <ul style="list-style-type: none"> • Skin peeling, scaling, or blistering (with or without pus) which may also affect your eyes, mouth, nose or genitals, itching, severe rash, bumps under the skin, skin pain, skin color changes (redness, yellowing, purplish) • Swelling and redness of eyes or face • Flu-like feeling, fever, chills, body 			✓

aches, swollen glands, cough			
• Shortness of breath, chest pain or discomfort			

HOW TO STORE IT

Remember to keep TARO-CEFPROZIL well out of reach of children.

Store the dry powder at room temperature (15° to 30°C). Protect from light and excessive humidity.

Store the reconstituted TARO-CEFPROZIL Oral Suspension in the refrigerator (2°C - 8°C) for up to 14 days. Keep container tightly closed. Throw out the remaining suspension after 14 days.

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.

MORE INFORMATION

If you want more information about TARO-CEFPROZIL:

- 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>) or by calling 1.866.840.1340.

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