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#### HIGHLIGHTS OF PRESCRIBING INFORMATION Tiopronin Delayed-Release Tablets delayed-release tablets, for oral use

These highlights do not include all the information needed to use Tiopronin Delayed-Release Tablets safely and effectively. See full prescribing information for Tiopronin Delayed-Release Tablets.

#### Initial U.S. Approval: 1988

INDICATIONS AND USAGE
Tiopronin Delayed-Release Tablets are a reducing and complexing thiol indicated, in combination with high fluid intake, alkali, and diet modification, for the prevention of cystine stone formation in adults and pediatric
patients 20 kg and greater with severe homozygous cystinuria, who are not responsive to these measures alone. (1) (1)
DOSAGE AND ADMINISTRATION
<ul> <li>The recommended initial dosage in adult patients is 800 mg/day. In clinical studies, the average dosage was</li> </ul>
<ul> <li>about 1,000 mg/day. (2.1) (2)</li> <li>The recommended initial dosage in pediatric patients 20 kg and greater is 15 mg/kg/day. Avoid dosages greater</li> </ul>
<ul> <li>than 50 mg/kg per day in pediatric patients. (5.1, 8.4) (2)</li> <li>Measure urinary cystine 1 month after initiation of Tiopronin Delayed-Release Tablets and every 3 months</li> </ul>
<ul> <li>thereafter (2.3) (2)</li> <li>Administer Tiopronin Delayed-Release Tablets in 3 divided doses at the same times each day, with or without</li> </ul>
<ul> <li>food. Maintain a routine pattern with regard to meals. (2.1) (2)</li> <li>Tiopronin Delayed-Release Tablets can be crushed and mixed with applesauce. For preparation and</li> </ul>
administration instructions, see the full prescribing information. (2.2) (2) <b>DOSAGE FORMS AND STRENGTHS</b>
Tablets: 100 mg and 300 mg (3) (3)
CONTRAINDICATIONS
Hypersensitivity to tiopronin or any component of Tiopronin Delayed-Release Tablets (4)
WARNINGS AND PRECAUTIONS
<ul> <li>Proteinuria, including nephrotic syndrome, and membranous nephropathy, has been reported with tiopronin use.</li> </ul>
Pediatric patients receiving greater than 50 mg/kg of tiopronin per day may be at increased risk for proteinuria. (2.1, 5.1, 8.4) (5)
Hypersensitivity reactions have been reported during tiopronin treatment. (4, 5.2)
ADVERSE REACTIONS
Most common adverse reactions (≥10%) are nausea, diarrhea or soft stools, oral ulcers, rash, fatigue, fever, arthralgia, proteinuria, and emesis. (6) To report SUSPECTED ADVERSE REACTIONS, contact BioComp Pharma, Inc. at toll-free

#### phone # 1-866-762-2365 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. (6)

- ------ USE IN SPECIFIC POPULATIONS ------
- Lactation: Breastfeeding is not recommended. (8.2)
- Geriatric: Choose dose carefully and monitor renal function in the elderly. (8.5)

Revised: 12/2024

#### FULL PRESCRIBING INFORMATION: CONTENTS\* **1 INDICATIONS AND USAGE** 2 DOSAGE AND ADMINISTRATION 2.1 Recommended Dosage 2.2 Preparation and Administration Instructions 2.3 Monitorina **3 DOSAGE FORMS AND STRENGTHS 4 CONTRAINDICATIONS** 5 WARNINGS AND PRECAUTIONS 5.1 Proteinuria 5.2 Hypersensitivity Reactions 6 ADVERSE REACTIONS 6.1 Clinical Trials Experience 6.2 Postmarketing Experience 7 DRUG INTERACTIONS 7.1 Alcohol 8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy 8.2 Lactation 8.4 Pediatric Use 8.5 Geriatric Use **10 OVERDOSAGE** 11 DESCRIPTION 12 CLINICAL PHARMACOLOGY 12.1 Mechanism of Action 12.2 Pharmacodynamics 12.3 Pharmacokinetics **13 NONCLINICAL TOXICOLOGY** 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility **16 HOW SUPPLIED/STORAGE AND HANDLING** \* Sections or subsections omitted from the full prescribing information are not listed.

#### FULL PRESCRIBING INFORMATION

Tiopronin Delayed-Release Tablets are indicated, in combination with high fluid intake, alkali, and diet modification, for the prevention of cystine stone formation in adults and pediatric patients 20 kg and greater with severe homozygous cystinuria, who are not responsive to these measures alone.

# 2 DOSAGE AND ADMINISTRATION

#### 2.1 Recommended Dosage

<u>Adults:</u> The recommended initial dosage in adult patients is 800 mg/day. In clinical studies, the average dosage was about 1,000 mg/day.

<u>Pediatrics</u>: The recommended initial dosage in pediatric patients weighing 20 kg and greater is 15 mg/kg/day. Avoid dosages greater than 50 mg/kg per day in pediatric patients [see Warnings and Precautions (5.1), Use in Specific Populations (8.4)].

Administer Tiopronin Delayed-Release Tablets in 3 divided doses at the same times each day, with or without

food. Maintain a routine pattern with regard to meals.

Consider starting Tiopronin Delayed-Release Tablets at a lower dosage in patients with history of severe toxicity to d-penicillamine.

#### 2.2 Preparation and Administration Instructions

For patients who cannot swallow the tablet whole, Tiopronin Delayed-Release Tablets can be crushed and mixed with applesauce. Administration of Tiopronin Delayed-Release Tablets with other liquids or foods has not been studied and is not recommended.

<u>Preparation and Administration of Tiopronin Delayed-Release Tablets Mixed in</u> <u>Applesauce</u>

For patients who can swallow semi-solid food, Tiopronin Delayed-Release Tablets can be crushed and mixed

with applesauce:

1. Crush the Tiopronin Delayed-Release Tablet in a clean pill crusher or mortar and pestle. Always crush one tablet at a time.

2. Measure approximately one tablespoon of applesauce and transfer it into a container with the crushed Tiopronin Delayed-Release Tablet.

3. Mix the crushed Tiopronin Delayed-Release Tablet in the applesauce until the powder is well dispersed.

4. Administer the entire Tiopronin Delayed-Release Tablets-applesauce mixture to the patient's mouth immediately. (However, if this is not possible, the mixture can be stored in a refrigerator for up to 2 hours after adding the crushed tablet to the applesauce. Discard any mixture that has not been given within 2 hours.)

5. To assure that any leftover applesauce mixture from the container is recovered, add

tap water to the same container, mix, and have the patient drink the water.

#### 2.3 Monitoring

Measure urinary cystine 1 month after starting Tiopronin Delayed-Release Tablets and every 3 months thereafter. Adjust Tiopronin Delayed-Release Tablets dosage to maintain urinary cystine concentration less than 250 mg/L.

Assess for proteinuria before treatment and every 3 to 6 months during treatment [see Warnings and Precautions (5.1)].

Discontinue Tiopronin Delayed-Release Tablets in patients who develop proteinuria, and monitor urinary protein and renal function. Consider restarting Tiopronin Delayed-Release Tablets treatment at a lower dosage after resolution of proteinuria.

#### 2.1 Recommended Dosage

<u>Adults:</u> The recommended initial dosage in adult patients is 800 mg/day. In clinical studies, the average dosage was about 1,000 mg/day.

<u>Pediatrics:</u> The recommended initial dosage in pediatric patients weighing 20 kg and greater is 15 mg/kg/day.

Avoid dosages greater than 50 mg/kg per day in pediatric patients [see Warnings and Precautions (5.1), Use in

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3. Mix the crushed Tiopronin Delayed-Release Tablet in the applesauce until the powder is well dispersed.

4. Administer the entire Tiopronin Delayed-Release Tablets-applesauce mixture to the patient's mouth

immediately. (However, if this is not possible, the mixture can be stored in a refrigerator for up to 2 hours

after adding the crushed tablet to the applesauce. Discard any mixture that has not been given within 2

hours.)

5. To assure that any leftover applesauce mixture from the container is recovered, add tap water to the same

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Measure urinary cystine 1 month after starting Tiopronin Delayed-Release Tablets and every 3 months

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Assess for proteinuria before treatment and every 3 to 6 months during treatment [see Warnings and Precautions (5.1)]

Precautions (5.1)].

Discontinue Tiopronin Delayed-Release Tablets in patients who develop proteinuria, and monitor urinary

protein and renal function. Consider restarting Tiopronin Delayed-Release Tablets treatment at a lower dosage

after resolution of proteinuria.

# **3 DOSAGE FORMS AND STRENGTHS**

Tablets for oral use:

100 mg tablets: round, white to off-white and imprinted in red with "T1" on one side 300 mg tablets: round, white to off-white and imprinted in red with "T3" on one side

# **4 CONTRAINDICATIONS**

Tiopronin Delayed-Release Tablets are contraindicated in patients with hypersensitivity to tiopronin or any other components of Tiopronin Delayed-Release Tablets [see Warnings and Precautions (5.2)].

## **5 WARNINGS AND PRECAUTIONS**

## 5.1 Proteinuria

Proteinuria, including nephrotic syndrome, and membranous nephropathy, have been reported with tiopronin

use. Pediatric patients receiving greater than 50 mg/kg of tiopronin per day may be at

increased risk for proteinuria [*see Dosage and Administration (2.3*), Adverse Reactions (6.1, 6.2), Use in Specific Populations (8.4)]. Monitor patients for the development of proteinuria and discontinue therapy in patients who develop proteinuria [*see Dosage and Administration (2.3*)].

#### 5.2 Hypersensitivity Reactions

Hypersensitivity reactions (drug fever, rash, fever, arthralgia and lymphadenopathy) have been reported [see Contraindications (4)].

## 5.1 Proteinuria

Proteinuria, including nephrotic syndrome, and membranous nephropathy, have been reported with tiopronin

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(8.4)]. Monitor patients for the development of proteinuria and discontinue therapy in patients who develop

proteinuria [see Dosage and Administration (2.3)].

#### 5.2 Hypersensitivity Reactions

Hypersensitivity reactions (drug fever, rash, fever, arthralgia and lymphadenopathy) have been reported [see Contraindications (4)].

## **6 ADVERSE REACTIONS**

The following adverse reactions are discussed in greater detail in other sections of the labeling:

• Proteinuria [see Warnings and Precautions (5.1)]

• Hypersensitivity [see Warnings and Precautions (5.2)]

## 6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, the adverse reaction rates observed in the clinical trials of the drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

Adverse reactions occurring at an incidence of  $\geq 5\%$  in an uncontrolled trial in 66 patients with cystinuria age 9 to 68 years are shown in the table below. Patients in group 1 had previously been treated with d-penicillamine; those in group 2 had not. Of those patients who had stopped taking d-penicillamine due to toxicity (34 out of 49 patients in group 1), 22 were able to continue treatment with Tiopronin Tablets. In those without prior history of d-penicillamine treatment, 6% developed reactions of sufficient severity to require Tiopronin Tablets withdrawal. **Table 1** presents adverse reactions  $\geq$ 5% in either treatment group occurring in this trial.

System Organ Class	Adverse Reaction	Group 1 Previously treated with d-penicillamine (N = 49)	Group 2 Naïve to d-penicillamine (N = 17)
Blood and Lymphatic System Disorders	anemia	1 (2%)	1 (6%)
Gastrointestinal Disorders	nausea	12 (25%)	2 (12%)
	emesis	5 (10%)	
	diarrhea/soft stools	9 (18%)	1 (6%)
	abdominal pain		1 (6%)
	oral ulcers	6 (12%)	3 (18%)
General Disorders and	fever	4 (8%)	—
Administration Site Conditions	weakness	2 (4%)	2 (12%)
	fatigue	7 (14%)	-
	peripheral (edema)	3 (6%)	1 (6%)
	chest pain	2 - C	1 (6%)
Metabolism and Nutrition Disorders	anorexia	4 (8%)	-
Musculoskeletal and Connective Tissue Disorders	arthralgia		2 (12%)
Renal and Urinary Disorders	proteinuria	5 (10%)	1 (6%)
	impotence	-	1 (6%)
Respiratory, Thoracic and Mediastinal Disorders	cough	-	1 (6%)
Skin and Subcutaneous Tissue	rash	7 (14%)	2 (12%)
Disorders	ecchymosis	3 (6%)	_
	pruritus	2 (4%)	1 (6%)
	urticaria	4 (8%)	_
	skin wrinkling	3 (6%)	1 (6%)

Table 1:	Adverse Reactions	Occurring in One	or More Patients
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#### <u>Taste Disturbance</u>

A reduction in taste perception may develop. It is believed to be the result of chelation of trace metals by tiopronin. Hypogeusia is often self-limited.

#### 6.2 Postmarketing Experience

Adverse reactions have been reported from the literature, as well as during post-

approval use of Tiopronin Tablets. Because the post-approval reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to Tiopronin Tablets exposure.

Adverse reactions reported during the postmarketing use of Tiopronin Tablets are listed by body system in **Table 2.** 

#### Table 2: Adverse Reactions Reported for Tiopronin Tablets Pharmacovigilance by System Organ Class and Preferred Term

System Organ Class	Preferred Term
Cardiac Disorders	congestive heart failure
Ear and Labyrinth Disorder	vertigo
Gastrointestinal Disorders	abdominal discomfort; abdominal distension; abdominal pain; chapped lips; diarrhea; dry mouth; dyspepsia; eructation; flatulence; gastrointestinal disorder; gastroesophageal reflux disease; nausea; vomiting; jaundice; liver transaminitis
General Disorders and Administration Site Conditions	asthenia; chest pain; fatigue; malaise; pain; peripheral swelling; pyrexia; swelling
Investigations	glomerular filtration rate decreased; weight increased
Metabolism and Nutrition Disorders	decreased appetite; dehydration; hypophagia
Musculoskeletal and Connective Tissue Disorders	arthralgia; back pain; flank pain; joint swelling; limb discomfort; musculoskeletal discomfort; myalgia; neck pain; pain in extremity
Nervous System Disorders	ageusia; burning sensation; dizziness; dysgeusia; headache; hypoesthesia
Renal and Urinary Disorders	nephrotic syndrome; proteinuria; renal failure
Skin and Subcutaneous Tissue Disorders	dry skin; hyperhidrosis; pemphigus foliaceus; pruritus; rash; rash pruritic; skin irritation; skin texture abnormal; skin wrinkling; urticaria

## 7 DRUG INTERACTIONS

## 7.1 Alcohol

Tiopronin is released faster from Tiopronin Delayed-Release Tablets in the presence of

alcohol and the risk for adverse events associated with Tiopronin Delayed-Release Tablets when taken with alcohol is unknown. Avoid alcohol consumption 2 hours before and 3 hours after taking Tiopronin Delayed-Release Tablets [see Clinical Pharmacology (12.3)].

# **8 USE IN SPECIFIC POPULATIONS**

- Lactation: Breastfeeding is not recommended. (8.2)
- Geriatric: Choose dose carefully and monitor renal function in the elderly. (8.5)

# See 17 for PATIENT COUNSELING INFORMATION.

## Revised: 07/2021

# 8.1 Pregnancy

<u>Risk Summary</u>

Available published case report data with tiopronin have not identified a drug-associated risk for major birth defects, miscarriage, or adverse maternal or fetal outcomes. Renal stones in pregnancy may result in adverse pregnancy outcomes (see Clinical Considerations). In animal reproduction studies, there were no adverse developmental outcomes with oral administration of tiopronin to pregnant mice and rats during organogenesis at doses up to 2 times a 2 grams/day human dose (based on mg/m2). The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. All pregnancies have a background risk of birth defect, loss, or other adverse outcomes. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies are 2% to 4% and 15% to 20%, respectively.

<u>Clinical Considerations</u>

Disease-associated maternal and/or embryo/fetal risk Renal stones in pregnancy may increase the risk of adverse pregnancy outcomes, such as preterm birth and low birth weight.

<u>Data</u>

Animal Data

No findings of fetal malformations could be attributed to the drug in reproduction studies in mice and rats at

doses up to 2 times the highest recommended human dose of 2 grams/day (based on mg/m2).

## 8.2 Lactation

<u>Risk Summary</u>

There are no data on the presence of tiopronin in either human or animal milk or on the effects of the

breastfed child. A published study suggests that tiopronin may suppress milk production. Because of the

potential for serious adverse reactions, including nephrotic syndrome, advise patients that breastfeeding is not

recommended during treatment with Tiopronin Delayed-Release Tablets.

#### 8.4 Pediatric Use

Tiopronin Delayed-Release Tablets are indicated in pediatric patients weighing 20 kg or more with severe

homozygous cystinuria, in combination with high fluid intake, alkali, and diet modification, for the prevention

of cystine stone formation who are not responsive to these measures alone. This indication is based on

safety and efficacy data from a trial in patients 9 years to 68 years of age and clinical experience. Proteinuria,

including nephrotic syndrome, has been reported in pediatric patients. Pediatric patients receiving greater

than 50 mg/kg tiopronin per day may be at greater risk [see Dosage and Administration (2.1, 2.3), Warnings

and Precautions (5.1) and Adverse Reactions (6.1)].

Tiopronin Delayed-Release Tablets are not approved for use in pediatric patients weighing less than 20 kg [see Dosage and Administration (2.1)].

## 8.5 Geriatric Use

This drug is known to be substantially excreted by the kidney, and the risk of adverse reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal

function.

# **10 OVERDOSAGE**

There is no information on overdosage with tiopronin.

# **11 DESCRIPTION**

Tiopronin Delayed-Release Tablets are a reducing and cystine-binding thiol drug (CBTD) for oral use. Tiopronin

is N-(2-Mercaptopropionyl) glycine and has the following structure:

# CH<sub>3</sub>-CH-CONHCH<sub>2</sub>-COOH

SH

Tiopronin has the empirical formula C  $_5$ H  $_9$ NO  $_3$ S and a molecular weight of 163.20. In this drug product tiopronin

exists as a dl racemic mixture.

Tiopronin is a white crystalline powder, which is freely soluble in water.

Each Tiopronin Delayed-Release Tablet contains 100 or 300 mg of tiopronin. The inactive ingredients in Tiopronin Delayed-Release Tablets include lactose monohydrate, hydroxypropyl cellulose, hydroxypropyl cellulose (low substitute), magnesium stearate, hydroxypropyl methylcellulose E5, methacrylic acid: ethyl

acrylate copolymer (Eudragit L 100-55), talc, triethyl citrate.

# **12 CLINICAL PHARMACOLOGY**

#### 12.1 Mechanism of Action

The goal of therapy is to reduce urinary cystine concentration below its solubility limit. Tiopronin is an active

reducing agent which undergoes thiol-disulfide exchange with cystine to form a mixed disulfide of tiopronincysteine.

From this reaction, a water-soluble mixed disulfide is formed and the amount of sparingly soluble

cystine is reduced.

#### **12.2 Pharmacodynamics**

The decrement in urinary cystine produced by tiopronin is generally proportional to the dose. A reduction in

urinary cystine of 250-350 mg/day at tiopronin dosage of 1 g/day, and a decline of approximately 500 mg/day

at a dosage of 2 g/day, might be expected. Tiopronin has a rapid onset and offset of action, showing a fall in

cystine excretion on the first day of administration and a rise on the first day of drug withdrawal.

#### **12.3 Pharmacokinetics**

#### <u>Absorption</u>

Tiopronin Delayed-Release Tablets

When Tiopronin Tablets and Tiopronin Delayed-Release Tablets single doses were given to fasted healthy

subjects, the median time to peak plasma levels (T  $_{max}$ ) was 1 (range: 0.5 to 2.1) and 3 (range: 1.0 to 6.0)

hours, respectively. The peak exposure (C  $_{\rm max}$ ) and total exposure (AUC  $_{\rm 0-t}$ ) of tiopronin from Tiopronin Delayed-

Release Tablets were decreased by 22% and 7% respectively compared to Tiopronin Tablets.

When Tiopronin Delayed-Release Tablets were administered crushed in applesauce, the median time to peak

plasma levels of tiopronin (T  $_{max}$ ) was 1 hour (range: 0.5 to 2.0) compared to 3.1 hours (range: 1.5 to 4.0) when

administered as intact Tiopronin Delayed-Release Tablets.

When Tiopronin Delayed-Release Tablets were administered crushed in applesauce, the maximum

concentration (C  $_{max}$ ) and exposure (AUC  $_{0-t}$ ) to tiopronin were increased by 38% and 14%, respectively,

compared to Tiopronin Delayed-Release Tablets administered intact.

#### Food Effects

Administration of the Tiopronin Delayed-Release Tablet with food decreases C  $_{\rm max}$  of tiopronin by 13% and

AUC  $_{0-t}$  by 25% compared to Tiopronin Delayed-Release Tablets administered in a fasted state.

Since the drug is dosed to effect, the study results support administration of Tiopronin Delayed-Release Tablets

with or without food; administer at the same time each day with a routine pattern with regard to meals.

<u>Elimination</u>

Excretion

When tiopronin is given orally, up to 48% of dose appears in urine during the first 4 hours and up to 78% by

72 hours.

Drug Interactions

Alcohol

An *in vitro* dissolution study was conducted to evaluate the impact of alcohol (5, 10, 20, and 40%) on the dose

dumping of Tiopronin Delayed-Release Tablets. The study results showed that the addition of alcohol to the

dissolution media increases the dissolution rate of Tiopronin Delayed-Release Tablets in the acidic media of

0.1N HCI [see Drug Interactions (7.1)].

# **13 NONCLINICAL TOXICOLOGY**

## 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

<u>Carcinogenesis</u>

Long-term carcinogenicity studies in animals have not been performed.

#### <u>Mutagenesis</u>

Tiopronin was not genotoxic in the chromosomal aberration, sister chromatid exchange, and *in vivo* 

micronucleus assays.

Impairment of Fertility

High doses of tiopronin in experimental animals have been shown to interfere with maintenance of pregnancy and viability of the fetus. In 2 published male fertility studies in rats, tiopronin at 20 mg/kg/day intramuscular (IM) for 60 days induced reductions in testis, epididymis, vas deferens, and accessory sex glands weights and in the count and motility of cauda epididymal sperm.

#### 16 HOW SUPPLIED/STORAGE AND HANDLING

100 mg delayed-release, round, white to off-white tablet imprinted with "T1" on one side with red ink and blank on the other side: Bottles of 300 **NDC** 44523-054-01.

300 mg delayed-release, round, white to off-white tablet imprinted with "T3" on one side with red ink and

blank on the other side: Bottles of 90 NDC 44523-055-01.

Store at 25°C (77°F); excursions permitted to 15-30°C (59-86°F) [see USP Controlled Room Temperature].

# **17 PATIENT COUNSELING INFORMATION**

Administration Instructions

For patients who cannot swallow the tablet whole, the Tiopronin Delayed-Release Tablets can be crushed and

mixed with applesauce. See Dosage and Administration (2.2) for preparation and administration instructions.

<u>Lactation</u>

Advise women that breastfeeding is not recommended during treatment with Tiopronin Delayed-Release

Tablets [see Use in Specific Populations (8.2)].



Manufactured for: BioComp Pharma, Inc. San Antonio, TX 78230 1355

BCP013R0423

See prescribing °C (77°F); 15-30°C (59-86°F) om Temperature]. Lo5401R0721 Pharma, Inc.	NDC 44523-054-01 <b>Tiopronin</b> Delayed-Release Tablets	401	
Usual dosage: S on. Store at 25°C is permitted to 1 <i>Controlled Roo</i> , Pharmacal formp Ph Pharmacal 0.555 0, TX 78230 1355	100 mg <sup>Rx only</sup> 300 TABLETS	44523 05401	
Rx only. Usu information. excursions p <i>[see USP Cc</i> Manufactured by Mission Pin San Antonio, T	BioComp Pharma.		

Tiopronin Delayed-Release Tablets 300mg

## NDC 44523-055-01



TIOPRONIN				
tiopronin tablet, delayed relea	se			
Product Information				
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:44	523-054
Route of Administration	ORAL			
	Malaka			
Active Ingredient/Active	моюту			
Ingree	dient Name	Basis of Stre	ength S	Strength
TIOPRONIN (UNII: C5W04G061S) (	TIOPRONIN - UNII:C5W04G061S)	TIOPRONIN	10	00 mg
Inactive Ingredients				

Ingredient Name METHACRYLIC ACID-ETHYL ACRYLATE COPOLYMER (1:1) TYPE A (UNII: NX76LV5T8J)							
LACTOSE MONOHYDRATE (UNII: EWQ57Q8I5X)							
HYPROMELLOSE, UNSPECIFIED (UNII: 3NXW29V3WO)							
TRIETHYL CITRATE (UNII: 8Z96QXD6UM)							
MAGNESIUM STEARATE (UNII: 70097M6I30)							
HYDROXYPROPYL	CELLULOSE,	, UNSPECIF	IED (UNII: 9XZ8H6N6OF	H)			
		, LOW SUBS	STITUTED (UNII: 2165R	E0K14)			
TALC (UNII: 7SEV7J4	4R1U)						
<b>Product Chara</b>	acteristics	5					
Color	wł	hite	Score		no score		
Shape	RC	DUND	Size		8mm		
Flavor			Imprint Code		T1		
Contains							
Packaging							
# Item Code		-	escription	Marketing Start Date	Marketing Date	End	
#         Item Code           1         NDC:44523-054- 01		-	escription : Not a Combination	-		End	
1 NDC:44523-054-	300 in 1 BOT	-	•	Date		End	
<b>1</b> NDC:44523-054- 01	300 in 1 BOT Product	TTLE; Type 0	•	Date		End	
1 NDC:44523-054- 01 Marketing Marketing	300 in 1 BOT Product	TTLE; Type 0	•	Date			
1       NDC:44523-054- 01         Marketing         Marketing         Category         NDA authorized	300 in 1 BOT Product	TTLE; Type 0	: Not a Combination	Date 12/05/2024 Marketing Start	Date		
1 NDC:44523-054- 01 Marketing Category	300 in 1 BOT Product	TTLE; Type 0	: Not a Combination	Date 12/05/2024 Marketing Start Date	Date		
1 NDC:44523-054- 01 Marketing Category NDA authorized generic	300 in 1 BOT Product	TTLE; Type 0	: Not a Combination	Date 12/05/2024 Marketing Start Date	Date		
1 NDC:44523-054- 01 Marketing Category NDA authorized generic	300 in 1 BOT Product	TTLE; Type 0	: Not a Combination	Date 12/05/2024 Marketing Start Date	Date		
1 NDC:44523-054- 01 Marketing Category NDA authorized generic	300 in 1 BOT Product	TTLE; Type 0	: Not a Combination	Date 12/05/2024 Marketing Start Date	Date		
1 NDC:44523-054- 01 Marketing Category NDA authorized generic	300 in 1 BOT Product Informa Applic NDA21184	TTLE; Type 0	: Not a Combination	Date 12/05/2024 Marketing Start Date	Date		
1       NDC:44523-054- 01         Marketing Category         NDA authorized generic         TIOPRONIN tiopronin tablet, or	300 in 1 BOT Product Informa Applic NDA21184	TTLE; Type 0 Tion ation Num Cit	: Not a Combination	Date 12/05/2024 Marketing Start Date	Date	End	
1       NDC:44523-054-01         Marketing       Marketing         Marketing       Category         NDA authorized       Marketing         generic       Value         TIOPRONIN       Tiopronin tablet, or         Product Infor       Note the second s	300 in 1 BOT Product Informa Applic NDA21184	TTLE; Type 0 Tion ation Num Cit	: Not a Combination	Date           12/05/2024           Marketing Start Date           12/05/2024	Date	End	

Active Ingredient/Active Moiety				
Ingredient Name	<b>Basis of Strength</b>	Strength		
TIOPRONIN (UNII: C5W04G061S) (TIOPRONIN - UNII:C5W04G061S)	TIOPRONIN	300 mg		
Inactive Ingredients				

**Ingredient Name** 

Strength

	CTOSE MONOH	YDRATE (l	JNII: EWQ57Q8I	5X)		
ΗY	PROMELLOSE,	UNSPECIF	IED (UNII: 3NX	W29V3WO)		
TR	IETHYL CITRATE	= (UNII: 8Z	96QXD6UM)			
MA	AGNESIUM STEA	RATE (UNI	I: 70097M6I30)			
ΗY	DROXYPROPYL	CELLULO	SE, UNSPECIF	IED (UNII: 9XZ8H6N6O	H)	
ΗY	DROXYPROPYL	CELLULO	SE, LOW SUB	STITUTED (UNII: 2165F	E0K14)	
ТА	LC (UNII: 7SEV7J4	IR1U)				
р.	roduct Chara	starist	icc			
	olor	icterist	white	Score		no score
			ROUND	Size		8mm
	ape avor		ROUND			T3
	avor ontains			Imprint Code	Imprint Code	
_						
Pa	ackaging					
	item Code		Package D	escription	Marketing Start Date	: Marketing End Date
#	ltem Code	90 in 1 B0 Product	-	escription Not a Combination		
#	Item Code NDC:44523-055-		-		Date	
# 1	Item Code NDC:44523-055- 01	Product	OTTLE; Type 0:		Date	
# 1	Item Code NDC:44523-055- 01	Product	OTTLE; Type 0:	Not a Combination	<b>Date</b> 12/05/2024	Date
#	Item Code NDC:44523-055- 01	Product	OTTLE; Type 0: nation		<b>Date</b> 12/05/2024	Date

Labeler - Bio Comp Pharma, Inc. (829249718)

**Registrant -** Mission Pharmacal Company (927726893)

Establishment				
Name	Address	ID/FEI	Business Operations	
Mission Pharmacal Company		927726893	manufacture(44523-054, 44523-055) , label(44523-054, 44523-055) , analysis(44523-054, 44523-055) , pack(44523-054, 44523-055)	

Revised: 12/2024

Bio Comp Pharma, Inc.