

Metabolism

Tafluprost, an ester prodrug, is hydrolyzed to its biologically active acid metabolite in the eye. The acid metabolite is further metabolized via fatty acid β-oxidation and phase II conjugation.

Elimination

Mean plasma tafluprost acid concentrations were below the limit of quantification of the bioanalytical assay (10 pg/mL) at 30 minutes following topical ocular administration of tafluprost 0.0015% ophthalmic solution.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Tafluprost was not carcinogenic when administered subcutaneously daily for 24 months at doses up to 30 mcg/kg/day in rats and for 18 months at doses up to 100 mcg/kg/day in mice (over 1600 and 1300 times, respectively, the maximum clinical exposure based on plasma AUC).

Tafluprost was not mutagenic or clastogenic in a battery of genetic toxicology studies, including an *in vitro* microbial mutagenesis assay, an *in vitro* chromosomal aberration assay in Chinese hamster lung cells, and an *in vivo* mouse micronucleus assay in bone marrow.

In rats, no adverse effects on mating performance or fertility were observed with intravenous dosing of tafluprost at a dose of 100 mcg/kg/day (over 14000 times the maximum clinical exposure based on plasma C_{max} or over 3600 times based on plasma AUC).

14 CLINICAL STUDIES

In clinical studies up to 24 months in duration, patients with open-angle glaucoma or ocular hypertension and baseline pressure of 23 to 26 mmHg who were treated with ZIOPTAN® dosed once daily in the evening demonstrated reductions in intraocular pressure at 3 and 6 months of 6 to 8 mmHg and 5 to 8 mmHg, respectively.

16 HOW SUPPLIED/STORAGE AND HANDLING

ZIOPTAN® (tafluprost ophthalmic solution) 0.0015% is supplied as a sterile solution in translucent low density polyethylene single-use containers packaged in foil pouches (10 single-use containers per pouch). Each single-use container has 0.3 mL solution corresponding to 0.0045 mg tafluprost.

NDC 82584-609-30; Unit-of-Use Carton of 30.

Storage:

Store refrigerated at 2° to 8°C (36° to 46°F). During shipment ZIOPTAN® may be maintained at temperatures up to 40°C (104°F) for a period not exceeding 2 days. Mail-order prescriptions received after two days of the dispensing date noted in the prescribing label should not be used. Store in the original pouch. After the pouch is opened, the single-use containers may be stored in the opened foil pouch for up to 30 days at room temperature 20° to 25°C (68° to 77°F). Protect from moisture. Write down the date you open the foil pouch in the space provided on the pouch. Discard any unused containers 30 days after first opening the pouch.

17 PATIENT COUNSELING INFORMATION

See FDA-Approved Patient Labeling (Patient Information).

17.1 Nightly Application

Advise patients to not exceed once daily dosing since more frequent administration may decrease the intraocular pressure lowering effect of ZIOPTAN®.

17.2 Handling the Single-Use Container

Advise patients that ZIOPTAN® is a sterile solution that does not contain a preservative. The solution from one individual unit is to be used immediately after opening for administration to one or both eyes. Since sterility cannot be maintained after the individual unit is opened, the remaining contents should be discarded immediately after administration.

17.3 Potential for Pigmentation

Advise patients about the potential for increased brown pigmentation of the iris, which may be permanent. Also inform patients about the possibility of eyelid skin darkening, which may be reversible after discontinuation of ZIOPTAN®.

17.4 Potential for Eyelash Changes

Inform patients of the possibility of eyelash and vellus hair changes in the treated eye during treatment with ZIOPTAN®. These changes may result in a disparity between eyes in length, thickness, pigmentation, number of eyelashes or vellus hairs, and/or direction of eyelash growth. Eyelash changes are usually reversible upon discontinuation of treatment.

17.5 When to Seek Physician Advice

Advise patients that if they develop a new ocular condition (e.g., trauma or infection), experience a sudden decrease in visual acuity, have ocular surgery, or develop any ocular reactions, particularly conjunctivitis and eyelid reactions, they should immediately seek their physician's advice concerning the continued use of ZIOPTAN®.

TEAR HERE (Healthcare Professional Information)

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Instructions for Use

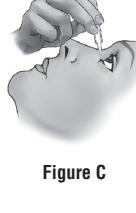

Read these Instructions for Use before using your ZIOPTAN® and each time you get a refill. There may be new information. This leaflet does not take the place of talking with your doctor about your medical condition or your treatment.

Important:

- ZIOPTAN® is for the eye only. Do not swallow ZIOPTAN®.
- ZIOPTAN® single-use containers are packaged in a foil pouch.
- Do not use the ZIOPTAN® single-use containers if the foil pouch is opened.
- Write down the date you open the foil pouch in the space provided on the pouch.

Every time you use ZIOPTAN®:

Step 1.	Wash your hands.	
Step 2.	Take the strip of single-use containers from the foil pouch.	
Step 3.	Pull off one single-use container from the strip.	
Step 4.	Put the remaining strip of single-use containers back in the foil pouch and fold the edge to close the pouch.	
Step 5.	Hold the single-use container upright. Make sure that your ZIOPTAN® medicine is in the bottom part of the single-use container. See Figure A.	
Step 6.	Open the single-use container by twisting off the tab. See Figure B.	

Step 7.	Tilt your head backwards. If you are unable to tilt your head, lie down.	
Step 8.	Place the tip of the single-use container close to your eye. Be careful not to touch your eye with the tip of the single-use container. See Figure C.	
Step 9.	Pull your lower eyelid downwards and look up.	
Step 10.	Gently squeeze the container and let 1 drop of ZIOPTAN® fall into the space between your lower eyelid and your eye. If a drop misses your eye, try again. See Figure D.	

- If your doctor has told you to use ZIOPTAN® drops in both eyes, repeat Steps 7 to 10 for your other eye.
- There is enough ZIOPTAN® in one single-use container for both of your eyes.
- **Throw away the opened single-use container with any remaining ZIOPTAN® right away.**

This Patient Information and Instructions for Use have been approved by the U.S. Food and Drug Administration.
Rx only



Manufactured for : **Thea Pharma Inc.**
Waltham, MA 02451

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