

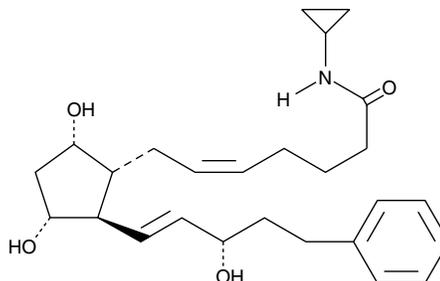
# Product Information



## 17-phenyl trinor Prostaglandin F<sub>2α</sub> cyclopropyl amide

Item No. 10010605

**CAS Registry No.:** 1138395-12-6  
**Formal Name:** N-ethyl-9α,11α,15S-trihydroxy-17-phenyl-18,19,20-trinor-prosta-5Z,13E-dien-1-cyclopropyl amide  
**Synonyms:** Bimatoprost cyclopropyl amide, 17-phenyl trinor PGF<sub>2α</sub> cyclopropyl amide  
**MF:** C<sub>26</sub>H<sub>37</sub>NO<sub>4</sub>  
**FW:** 427.6  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid



### Laboratory Procedures

For long term storage, we suggest that 17-phenyl trinor prostaglandin F<sub>2α</sub> cyclopropyl amide (17-phenyl trinor PGF<sub>2α</sub> cyclopropyl amide) be stored as supplied at -20°C. It should be stable for at least two years.

17-phenyl trinor PGF<sub>2α</sub> cyclopropyl amide is supplied as a crystalline solid. A stock solution may be made by dissolving the 17-phenyl trinor PGF<sub>2α</sub> cyclopropyl amide in an organic solvent purged with an inert gas. 17-phenyl trinor PGF<sub>2α</sub> cyclopropyl amide is soluble in organic solvents such as ethanol, DMSO, and DMF. The solubility of 17-phenyl trinor PGF<sub>2α</sub> cyclopropyl amide in these solvents is approximately 25 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 17-phenyl trinor PGF<sub>2α</sub> cyclopropyl amide can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of 17-phenyl trinor PGF<sub>2α</sub> cyclopropyl amide in PBS, pH 7.2, is approximately 0.25 mg/ml. We do not recommend storing the aqueous solution for more than one day.

17-phenyl trinor PGF<sub>2α</sub> ethyl amide is sold under the Allergan trade name Bimatoprost and is an F-series PG analog which has been approved for use as an ocular hypotensive drug.<sup>1</sup> The free acid, 17-phenyl trinor PGF<sub>2α</sub>, is a potent FP receptor agonist.<sup>2,3</sup> 17-phenyl trinor PGF<sub>2α</sub> cyclopropyl amide is a novel analog of 17-phenyl trinor PGF<sub>2α</sub> ethyl amide. There are no published reports on the biological activity of 17-phenyl trinor PGF<sub>2α</sub> cyclopropyl amide.

### References

1. Woodward, D.F., Krauss, A.H.-P., Chen, J., *et al.* The pharmacology of Bimatoprost (Lumigan™). *Survey of Ophthalmology* **45**, S337-S345 (2001).
2. Balapure, A.K., Rexroad, C.E., Jr., Kawada, K., *et al.* Structural requirements for prostaglandin analog interaction with the ovine corpus luteum prostaglandin F<sub>2α</sub> receptor. *Biochem. Pharmacol.* **38**, 2375-2381 (1989).
3. Lake, S., Gullberg, H., Wahlqvist, J., *et al.* Cloning of the rat and human prostaglandin F<sub>2α</sub> receptors and the expression of the rat prostaglandin F<sub>2α</sub> receptor. *FEBS Lett.* **355**, 317-325 (1994).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/10010605](http://www.caymanchem.com/catalog/10010605)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY. NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### SAFETY DATA

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