



# SZABO SCANDIC

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## Produktinformation



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- Gefahrgutzuschlag
- Expressversand

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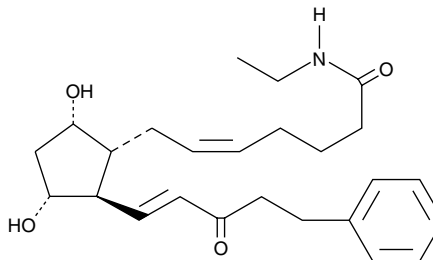
# Product Information



## 15-keto-17-phenyl trinor Prostaglandin F<sub>2α</sub> ethyl amide

Item No. 10010405

**CAS Registry No.:** 1163135-96-3  
**Formal Name:** N-ethyl-9α,11α-dihydroxy-15-keto-17-phenyl-18,19,20-trinor-prost-5Z,13E-dien-1-amide  
**Synonyms:** 15-keto Bimatoprost, 15-keto-17-phenyl trinor PGF<sub>2α</sub> ethyl amide  
**MF:** C<sub>25</sub>H<sub>35</sub>NO<sub>4</sub>  
**FW:** 413.5  
**Purity:** ≥98%  
**Stability:** ≥1 year at -20°C  
**Supplied as:** A solution in methyl acetate  
**UV/Vis.:** λ<sub>max</sub>: 234 nm



### Laboratory Procedures

For long term storage, we suggest that 15-keto-17-phenyl trinor prostaglandin F<sub>2α</sub> ethyl amide (15-keto-17-phenyl trinor PGF<sub>2α</sub> ethyl amide) be stored as supplied at -20°C. It should be stable for at least one year.

15-keto-17-phenyl trinor PGF<sub>2α</sub> ethyl amide is supplied as a solution in methyl acetate. To change the solvent, simply evaporate the methyl acetate under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 15-keto-17-phenyl trinor PGF<sub>2α</sub> ethyl amide in these solvents is approximately 10, 2, and 2.5 mg/ml, respectively.

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. If an organic solvent-free solution of 15-keto-17-phenyl trinor PGF<sub>2α</sub> ethyl amide is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 15-keto-17-phenyl trinor PGF<sub>2α</sub> ethyl amide in PBS, pH 7.2, is approximately 0.5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Bimatoprost is the Allergan trade name for 17-phenyl trinor PGF<sub>2α</sub> ethyl amide, an F-series PG analog which has been approved for use as an ocular hypotensive drug.<sup>1</sup> Oxidation of the C-15 hydroxyl group produces 15-keto-17-phenyl trinor PGF<sub>2α</sub> ethyl amide. 15-keto-17-phenyl trinor PGF<sub>2α</sub> ethyl amide is a potential metabolite of 17-phenyl trinor PGF<sub>2α</sub> ethyl amide when 17-phenyl trinor PGF<sub>2α</sub> ethyl amide administered to intact animals. No pharmacological studies on 15-keto-17-phenyl trinor PGF<sub>2α</sub> ethyl amide have been reported.

### Reference

1. Woodward, D.F., Krauss, A.H.-P., Chen, J., *et al.* The pharmacology of Bimatoprost (Lumigan™). Survey of *Ophthalmology* **45**, S337-S345 (2001).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/10010405](http://www.caymanchem.com/catalog/10010405)

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

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