PRODUCT INFORMATION



17-trifluoromethylphenyl trinor Prostaglandin $\mathbf{F}_{\mathbf{2}\alpha}$ ethyl amide Item No. 10010061

CAS Registry No.: 1621369-73-0

Formal Name: 9a,11a,15S-trihydroxy-17-

> trifluoromethylphenyl-18,19,20trinor-prosta-5Z,13E-dien-1-oic acid,

ethyl amide

Synonym: 17-trifluoromethylphenyl trinor

 $\mathsf{PGF}_{2\alpha}$ ethyl amide

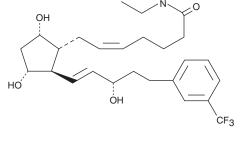
MF: $C_{26}H_{36}F_3NO_4$

FW: 483.6 ≥98% **Purity:**

A solution in ethanol Supplied as:

-20°C Storage: Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

17-trifluoromethylphenyl trinor Prostaglandin $F_{2\alpha}$ ethyl amide (17-trifluoromethylphenyl trinor $PGF_{2\alpha}$ ethyl amide) is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO and dimethyl formamide purged with an inert gas can be used. The solubility of 17-trifluoromethylphenyl trinor PGF $_{2\alpha}$ ethyl 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. If an organic solvent-free solution of 17-trifluoromethylphenyl trinor $PGF_{2\alpha}$ ethyl amide is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 17-trifluoromethylphenyl trinor $PGF_{2\alpha}$ ethyl amide in PBS, pH 7.2, is approximately 0.15 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

 $PGF_{2\alpha}$, acting through the FP receptor, causes smooth muscle contraction and exhibits potent luteolytic activity.¹⁻³ 17-trifluoromethylphenyl trinor $PGF_{2\alpha}$ is an analog of $PGF_{2\alpha}$ that shares the metatrifluoromethyl group of travoprost with the 17-phenyl trinor modification of latanoprost. It is anticipated to be a potent and selective agonist of the FP receptor, with potential applications in glaucoma and luteolysis. $17 - trifluoromethylphenyl\ trinor\ PGF_{2\alpha}\ ethyl\ amide\ is\ a\ lipophilic\ analog\ of\ 17 - trifluoromethylphenyl\ trinor\ property and the property of the property of$ PGF_{2a}. Ethyl amides of PGs can serve as prodrugs, as they are hydrolyzed in certain tissues to generate the bioactive free acid.

References

- 1. Samuelsson, B., Goldyne, M., Granström, E., et al. Prostaglandins and thromboxanes. Annu. Rev. Biochem. **47**, 997-1029 (1978).
- 2. Speroff, L. and Ramwell, P.W. Prostaglandins in reproductive physiology. Am. J. Obstet. Gynecol. 107, 1111-1130 (1970).
- 3. Crankshaw, D.J. and Gaspar, V. Pharmacological characterization in vitro of prostanoid receptors in the myometrium of nonpregnant ewes. J. Reprod. Fertil. 103, 55-61 (1995).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website

Copyright Cayman Chemical Company, 05/13/2024

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM