

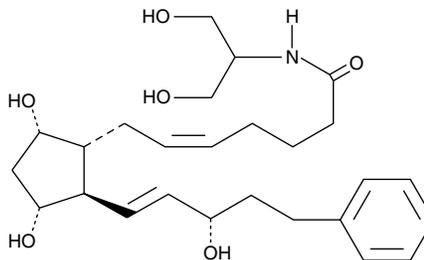
Product Information



17-phenyl trinor Prostaglandin F_{2α} serinol amide

Item No. 10004237

CAS Registry No.: 1175838-84-2
Formal Name: N-[(2-hydroxy-1-hydroxymethyl)ethyl]-9α,11α,15S-trihydroxy-17-phenyl-18,19,20-trinor-prosta-5Z,13E-dien-1-amide
Synonyms: Bimatoprost serinol amide, 17-phenyl trinor PGF_{2α}-SA
MF: C₂₆H₃₉NO₆
FW: 461.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that 17-phenyl trinor prostaglandin F_{2α} serinol amide (17-phenyl trinor PGF_{2α} serinol amide) be stored as supplied at -20°C. It should be stable for at least one year.

17-phenyl trinor PGF_{2α} serinol 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 ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 17-phenyl trinor PGF_{2α} serinol amide in these solvents is at least 10 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-phenyl trinor PGF_{2α} serinol amide is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 17-phenyl trinor PGF_{2α} serinol amide in PBS (pH 7.2) is at least 0.5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

2-Arachidonyl glycerol (2-AG) exhibits cannabinoid (CB) agonist activity at the CB₁ receptor,¹ is an important endogenous monoglyceride species,² and is thus considered to be the natural ligand for the CB₁ receptor. 2-AG can also be metabolized by COX-2 and specific PG synthases to form PG 2-glycerol esters.³ These 2-glycerol esters rapidly equilibrate to form 90:10 mixtures favoring the more stable 1-glycerol ester. 17-phenyl trinor PGF_{2α} serinol amide is a stable analog of PGF_{2α} 2-glycerol ester incorporating an activity-enhancing 17-phenyl substitution. The biological activity of 17-phenyl trinor PGF_{2α} serinol amide has not yet been determined.

References

1. Sugiura, T., Kodaka, T., Kondo, S., *et al. J. Biochem.* **122**, 890-895 (1997).
2. Kondo, S., Kondo, H., Nakane, S., *et al. FEBS Lett.* **429**, 152-156 (1998).
3. Kozak, K.R., Crews, B.C., Morrow, J.D., *et al. J. Biol. Chem.* **277(47)**, 44877-44885 (2002).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10004237

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