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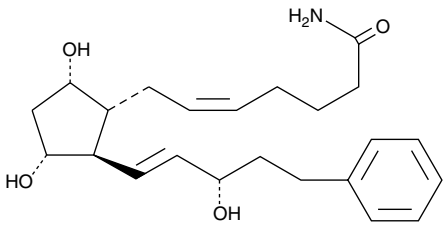
Product Information

17-phenyl trinor Prostaglandin $F_{2\alpha}$ amide

Item No. 16821

CAS Registry No.:	155205-89-3
Formal Name:	9α,11α,15S-trihydroxy-17-phenyl-18,19,20-trinor-prosta-5Z,13E-dien-1-amide
Synonyms:	Bimatoprost amide, 17-phenyl trinor $PGF_{2\alpha}$ amide
MF:	$C_{23}H_{33}NO_4$
FW:	387.5
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 $F_{2\alpha}$ amide (17-phenyl trinor $PGF_{2\alpha}$ amide) be stored as supplied at -20°C. It should be stable for at least one year.

17-phenyl trinor $PGF_{2\alpha}$ 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-phenyl trinor $PGF_{2\alpha}$ amide in these solvents is approximately 20 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 $PGF_{2\alpha}$ 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 $PGF_{2\alpha}$ amide in PBS (pH 7.2) is approximately 2 mg/ml. Although the aqueous solutions of 17-phenyl trinor $PGF_{2\alpha}$ amide may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

17-phenyl trinor $PGF_{2\alpha}$ amide is an F-series PG analog in which the C-1 carboxyl group has been modified to an unsubstituted amide. PG esters have been shown to have ocular hypotensive activity.[1] PG N-ethyl amides were recently introduced as alternative PG hypotensive prodrugs.[2] Although it has been claimed that PG amides are not converted to the free acids *in vivo*,[2] studies have shown that bovine and human corneal tissue converts the amides of various PGs to the free acids with a conversion efficiency of about 10-20% relative to the hydrolysis of isopropyl esters.[3] 17-phenyl trinor $PGF_{2\alpha}$ amide would be expected to show the typical intraocular effects of latanoprost, but with the much slower hydrolysis pharmacokinetics of the PG N-amides.

References

1 Bito, L.Z. *Exp. Eye Res.* **38**, 181-184 (1984).

2. Woodward, D.F., Krauss, A.H.-P., Chen, J., *et al.* *Survey of Ophthalmology* **45**, S337-S345 (2001).

3. Maxey, K.M., Johnson, J., Camras, C.B., *et al.* *Survey of Ophthalmology* **47(4)**, 34-40 (2002).

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