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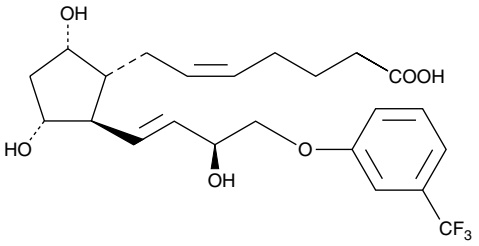
Product Information

15(S)-Fluprostenol

Item No. 16787

CAS Registry No.: 54276-24-3
Formal Name: 9α,11α,15S-trihydroxy-16-(3-(trifluoro-methyl)phenoxy)-17,18,19,20-tetranor-prosta-5Z,13E-dien-1-oic acid
MF: $C_{23}H_{29}F_3O_6$
FW: 458.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A solution in ethanol
UV/Vis.: λ_{max}: 222, 227 nm



Laboratory Procedures

For long term storage, we suggest that 15(S)-fluprostenol be stored as supplied at -20°C. It should be stable for at least two years.

15(S)-Fluprostenol 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 15(S)-fluprostenol in these solvents is approximately 100 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 15(S)-fluprostenol is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 15(S)-fluprostenol in PBS (pH 7.2) is approximately 15 mg/ml. We do not recommend storing the aqueous solution for more than one day.

(+)-15(R)-Fluprostenol isopropyl ester is a prodrug (Travoprost) which is converted by esterase enzymatic activity in the cornea to yield the corresponding free acid.[1] The free acid, (+)-15(R)-fluprostenol, is a potent FP receptor agonist.[2] The 15(R)-epimers of most prostaglandins are about 100 times less potent than the natural, 15(S)-isomers. However, the neighboring phenoxy group at C-16 reverses the absolute configuration at C-15 in the fluprostenol series; hence, 15(S)-fluprostenol is less active as an FP agonist than 15(R)-fluprostenol. The biology of 15(S)-fluprostenol has not been widely studied.

References

1. Stjernschantz, J. and Resul, B. Phenyl substituted prostaglandin analogs for glaucoma treatment. *Drugs of the Future* **17**, 691-704 (1992).
2. Abramovitz, M., Adam, M., Boie, Y., *et al.* The utilization of recombinant prostanoid receptors to determine the affinities and selectivities of prostaglandins and related analogs. *Biochim. Biophys. Acta* **1483**, 285-293 (2000).

Related Products

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