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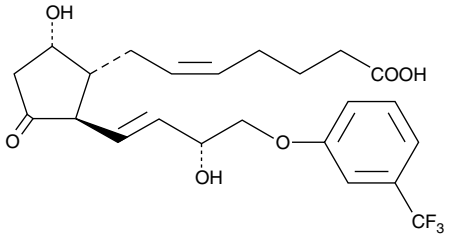
Product Information

11-keto Fluprostenol

Item No. 16783

CAS Registry No.: 62145-07-7
Formal Name: 11-oxo-9α,15R-dihydroxy-16-(3-(trifluoromethyl)phenoxy)-17,18,19,20-tetranor-prosta-5Z,13E-dien-1-oic acid
Synonym: Fluprostenol Prostaglandin D_2
MF: $C_{23}H_{27}F_3O_6$
FW: 456.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A solution in methyl acetate
UV/Vis.: λ_{max}: 221, 276 nm



Laboratory Procedures

For long term storage, we suggest that 11-keto fluprostenol be stored as supplied at -20°C. It should be stable for at least two years.

11-keto Fluprostenol 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 purged with an inert gas can be used. 11-keto Fluprostenol is miscible with ethanol.

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 11-keto fluprostenol is needed, it can be prepared by evaporating the methyl acetate and directly dissolving the neat oil in aqueous buffers. The solubility of 11-keto fluprostenol in PBS (pH 7.2) is approximately 29 mg/ml. We do not recommend storing the aqueous solution for more than one day.

11-keto Fluprostenol is an analog of PGD_2 with structural modifications intended to give it a prolonged half-life and greater potency. Fluprostenol is a well-studied, potent analog of $PGF_{2\alpha}$ and acts primarily through the FP receptor.[1] Oxidation at C-11 of fluprostenol yields 11-keto fluprostenol. 11-keto Fluprostenol exhibits moderate binding to the CRTH2/DP_2 receptor compared to PGD_2 and essentially no activity at the DP_1 receptor.[2]

References

1. Dukes, M., Russell, W., and Walpole, A.L. Potent luteolytic agents related to prostaglandin $F_{2\alpha}$. *Nature* **250**, 330-331 (1974).
2. Monneret, G., Cossette, C., Gravel, S., *et al.* 15R-methyl-prostaglandin D_2 is a potent and selective CRTH2/DP_2 receptor agonist in human eosinophils. *J. Pharmacol. Exp. Ther.* **304(1)**, 349-355 (2003).

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