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- Trockeneiszuschlag
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- Expressversand

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Product Information



2,3-dinor Fluprostenol

Item No. 16780

Formal Name: (+)-9 α ,11 α ,15R-trihydroxy-16-(3-(trifluoromethyl)phenoxy)-2,3,17,18,19,20-hexanor-prosta-5Z,13E-dien-1-oic acid

MF: C₂₁H₂₅F₃O₆

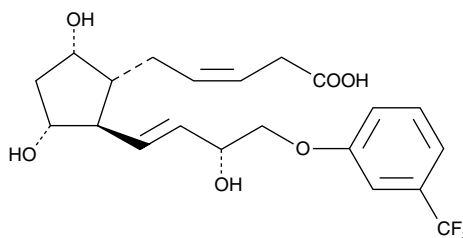
FW: 430.4

Purity: \geq 98%

Stability: \geq 2 years at -20°C

Supplied as: A solution in ethanol

UV/Vis.: λ_{\max} : 222, 277 nm ϵ : 9,700



Laboratory Procedures

2,3-dinor Fluprostenol is an analog of prostaglandin F_{2 α} (PGF_{2 α}). For long term storage, we suggest that 2,3-dinor fluprostenol be stored as supplied at -20°C. It should be stable for at least two years.

2,3-dinor 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 2,3-dinor fluprostenol in these solvents is approximately 100 mg/ml. 2,3-dinor Fluprostenol is stable for at least six months in these solvents if stored at -20°C.

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 2,3-dinor fluprostenol is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of 2,3-dinor fluprostenol in PBS (pH 7.2) is approximately 16 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Fluprostenol is a well-studied, potent analog of PGF_{2 α} acting primarily through the FP receptor.¹ β -Oxidation of fluprostenol yields 2,3-dinor fluprostenol. It is anticipated that this analog will be a prominent metabolite of the parent compound when administered to humans or other animals. It is likely that 2,3-dinor fluprostenol will retain some biological activity with respect to the eicosanoid receptors. However, no studies on the pharmacology of this compound have been published to date.

Reference

1. Dukes, M., Russell, W., and Walpole, A.L. Potent luteolytic agents related to prostaglandin F_{2 α} . *Nature* **250**, 330-331 (1974).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16780

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

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