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- Gefahrgutzuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Product Information

(+)-Cloprostenol methyl amide

Item No. 10010495

Formal Name: (+)-9α,11α,15R-trihydroxy-16-(3-chlorophenoxy)-17,18,19,20-tetranor-prosta-5Z,13E-dien-1-oic acid, methyl amide

Synonyms: D-Cloprostenol methyl amide, (+)-16-*m*-Chlorophenoxy tetranor $PGF_{2\alpha}$ methyl amide

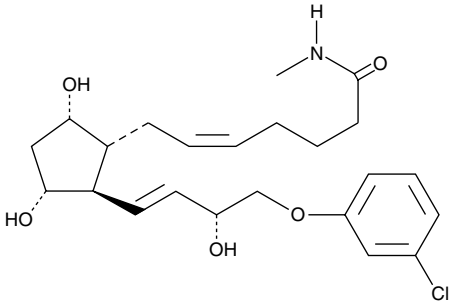
MF: $C_{23}H_{32}ClNO_5$

FW: 438.0

Purity: ≥98%

Stability: ≥1 year at -20°C

Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that (+)-cloprostenol methyl amide be stored as supplied at -20°C. It should be stable for at least one year.

(+)-Cloprostenol methyl 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 (+)-cloprostenol methyl amide 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 (+)-cloprostenol methyl amide is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of (+)-cloprostenol methyl amide in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

(+)-Cloprostenol is a synthetic analog of prostaglandin $F_{2\alpha}$ ($PGF_{2\alpha}$). It is an FP receptor agonist and a potent luteolytic agent in rats and hamsters. It is 200 times and 100 times more potent than $PGF_{2\alpha}$ in terminating pregnancy in hamsters and rats, respectively, without the side effects associated with $PGF_{2\alpha}$.[1] (+)-Cloprostenol is also used in veterinary medicine as a luteolytic agent for the induction of estrus and the treatment of reproductive disorders in cattle, swine, and horses. (+)-Cloprostenol methyl ester is a more lipid soluble form of (+)-cloprostenol. Amides of PGs may serve as prodrugs, under the condition they are hydrolyzed appropriately in certain tissues to generate the bioactive free acid.

Reference

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

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10010495

Cayman Chemical

Mailing address
1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone
(800) 364-9897
(734) 971-3335

Fax
(734) 971-3640

E-Mail
custserv@caymanchem.com

Web
www.caymanchem.com