

Product Data Sheet

Product Name: (+)-Cloprostenol methyl amide

Cat. No.: GC45261

Chemical Properties

Cas. No.

SMILES O[C@@H]1[C@H](C/C=C\CCCC(NC)=O)[C@@H](/C=C/[C@@H](O)COC2=CC=CC(CI)=C2)[C@H](O)C1

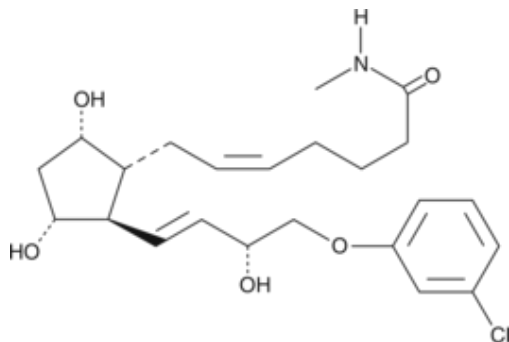
Formula C₂₃H₃₂ClNO₅ M.Wt 438

Solubility DMF: 100 mg/ml, DMSO: 100 mg/ml, Ethanol: 100 mg/ml, PBS (pH 7.2): 10 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

(+)-Cloprostenol is a synthetic analog of prostaglandin F_{2α} (PGF_{2α}). 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_{2α} in terminating pregnancy in hamsters and rats, respectively, without the side effects associated with PGF_{2α}. 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 amide 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

Caution: Product has not been fully validated for medical applications. For research use only.

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