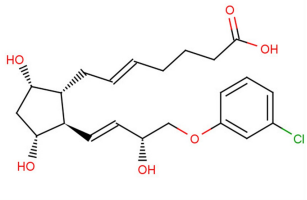
Data Sheet (Cat.No.T13461)

TargetMol
A DRUG SCREENING EXPERT

(+)-Cloprostenol

Chemical Properties



CAS No.:	54276-21-0
Formula:	C22H29ClO6
Molecular Weight:	424.92
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	(+)-Cloprostenol is a analogue of prostaglandin F2α (PGF2α), and is selective prostaglandin receptor agonistic.
Targets(IC_{50})	PGF2α: None
In vitro	D-Closrostenol and PGF2α have the same potency. In inhibiting the binding of [3H] PGF2α to the corpus luteum membrane, its potency is about 150 times that of dl-cloprostenol (P<0.05), and its potency is about 280 times that of PGE1. However, in myometrial cell membranes, d-cloprostenol and PGF2 alpha are about 10 times more potent than dl-cloprostenol and 95 times more potent than PGE1[2].

Solubility Information

Solubility	DMSO: 100 mg/mL (235.34 mM) Ethanol: 50 mg/mL (117.67 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.353 mL	11.767 mL	23.534 mL
5 mM	0.471 mL	2.353 mL	4.707 mL
10 mM	0.235 mL	1.177 mL	2.353 mL
50 mM	0.047 mL	0.235 mL	0.471 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Manca R, et al. Intra-vesicle administration of D-cloprostenol for induction of abortion in mid-gestation bitches. Anim Reprod Sci. 2008 Jun;106(1-2):133-42. Epub 2007 Apr 21.

2. Re G, et al. Specific binding of dl-cloprostenol and d-cloprostenol to PGF2 alpha receptors in bovine corpus luteum and myometrial cell membranes. J Vet Pharmacol Ther. 1994 Dec;17(6):455-8.

Inhibitors · Natural Compounds · Compound Libraries

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