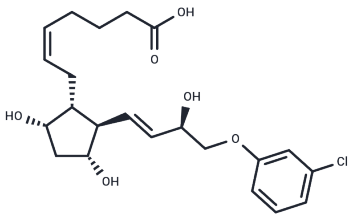
Data Sheet (Cat.No.T13461)

TargetMol
YOUR TARGET MOLECULES

(+)-Cloprostenol

Chemical Properties



CAS No. : 54276-21-0

Formula: C22H29ClO6

Molecular Weight: 424.92

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	(+)-Cloprostenol is a analogue of prostaglandin F2α (PGF2α), and is selective prostaglandin receptor agonistic.
Targets(IC50)	Others
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	Ethanol: 50 mg/mL (117.67 mM),Sonication is recommended. DMSO: 100 mg/mL (235.34 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3534 mL	11.7669 mL	23.5338 mL
5 mM	0.4707 mL	2.3534 mL	4.7068 mL
10 mM	0.2353 mL	1.1767 mL	2.3534 mL
50 mM	0.0471 mL	0.2353 mL	0.4707 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

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.

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