Cloprostenol sodium salt

Cat. No.: HY-108415

CAS No.: 55028-72-3

Molecular Formula: $C_{22}H_{28}ClNaO_6$

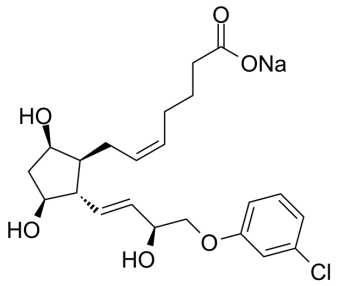
Molecular Weight: 446.9

Target: Prostaglandin Receptor

Pathway: GPCR/G Protein

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : ≥ 150 mg/mL (335.65 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2376 mL	11.1882 mL	22.3764 mL
5 mM	0.4475 mL	2.2376 mL	4.4753 mL
10 mM	0.2238 mL	1.1188 mL	2.2376 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 100 mg/mL (223.76 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Cloprostenol sodium salt (ICI 80996 sodium salt) is a potent synthetic prostaglandin analogue, acts as a luteolytic agent[1], and is a PGF2α receptor agonist[2].

IC_{50} & Target

PGF2α receptor[2]

In Vitro

Cloprostenol is a PGF2α receptor agonist[2].

Cloprostenol (0.1 μM) counteracts the adipogenic effects of statil, on both intracellular lipid accumulation and expression of transcripts for proadipogenic factors C/EBPα and PPARγ after treatment for 6 days[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Cloprostenol sodium salt (25 μg) decreases plasma progesterone in pregnant rats[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Salazar H, et al. Luteolytic effects of a prostaglandin analogue, cloprostenol (ICI 80,996), in rats: ultrastructural and biochemical observations. Biol Reprod. 1976 May;14(4):458-72.

[2]. Pastel E, et al. Aldose reductases influence prostaglandin F2α levels and adipocyte differentiation in male mouse and human species. Endocrinology. 2015 May;156(5):1671-84.

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