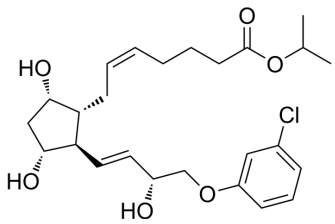
Cloprostenol isopropyl ester

Cat. No.:	HY-100571
CAS No.:	157283-66-4
Molecular Formula:	$C_{25}H_{35}ClO_6$
Molecular Weight:	466.99
Target:	Prostaglandin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cloprostenol isopropyl ester, a prostaglandin F2α analogs, is the intermediate of (+)-Cloprostenol (HY-107381). Cloprostenol isopropyl ester is a FP receptor agonist with a K_i value of 28 nM[1][2].
IC_{50} & Target	FP
In Vivo	Cloprostenol isopropyl ester (25 μg/kg; i.p.; daily, for 4 weeks; male mice) induces changes in the evolution of the spermatogenesis and spermiogenesis[1]. Cloprostenol isopropyl ester (1 μg, 30 μL; injected into the eye; for 2, 4 and 6 h) causes pupil constriction in the cat. Cloprostenol isopropyl ester has an efficacious ocular hypotensive in the lasered monkey[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male mice (50–80 days)[1]
Dosage:	25 μg/kg
Administration:	Intraperitoneal injection; daily, for 4 weeks
Result:	Stimulated the androgen synthesis in a time-dependent manner.

REFERENCES

[1]. Sava A, et, al. Electron microscopic aspects of the effects of certain prostaglandin analogs on mouse testes. Rom J Morphol Embryol. 2015;56(2 Suppl):771-5.

[2]. Hellberg MR, et, al. Identification and characterization of the ocular hypotensive efficacy of travoprost, a potent and selective FP prostaglandin receptor agonist, and AL-6598, a DP prostaglandin receptor agonist. Surv Ophthalmol. 2002 Aug;47 Suppl 1:S13-33.

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

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