

Cloprostenol isopropyl ester

Chemical Properties

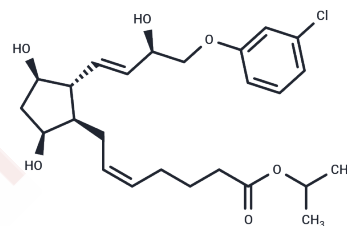
CAS No. : 157283-66-4

Formula: C₂₅H₃₅ClO₆

Molecular Weight: 466.99

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cloprostenol isopropyl ester is a PGF ₂ α agonist and a similar synthetic prostaglandin F ₂ α (PGF ₂ α), which can induce luteal dissolution in mares during the luteal phase without causing clinical side effects or stress responses.
Targets(IC50)	Others,Prostaglandin Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1414 mL	10.7069 mL	21.4137 mL
5 mM	0.4283 mL	2.1414 mL	4.2827 mL
10 mM	0.2141 mL	1.0707 mL	2.1414 mL
50 mM	0.0428 mL	0.2141 mL	0.4283 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Taktaz T, Kafi M, Mokhtari A, Heidari M. Reproductive responses of dairy cows with ovarian cysts to simultaneous human chorionic gonadotropin or gonadotropin-releasing hormone and cloprostenol compared to gonadotropin-releasing hormone alone treatment. *Vet World*. 2015 May;8(5):640-4. doi: 10.14202/vetworld.2015.640-644. Epub 2015 May 22. PubMed PMID: 27047149; PubMed Central PMCID: PMC4774727.
- Kuhl J, Nagel C, Ille N, Aurich JE, Aurich C. The PGF 2α agonists luprostiol and d-cloprostenol reliably induce luteolysis in luteal phase mares without evoking clinical side effects or a stress response. *Anim Reprod Sci*. 2016 May;168:92-9. doi: 10.1016/j.anireprosci.2016.02.031. Epub 2016 Mar 2. PubMed PMID: 26963045.
- Wei S, Gong Z, An L, Zhang T, Dai H, Chen S. Cloprostenol and pregnant mare serum gonadotropin promote estrus synchronization, uterine development, and follicle-stimulating hormone receptor expression in mice. *Genet Mol Res*. 2015 Jun 29;14(2):7184-95. doi: 10.4238/2015.June.29.12. PubMed PMID: 26125929.
- Chen Y, Yan H, Chen HX, Weng J, Lu G. An Improved and Efficient Process for the Preparation of (+)-cloprostenol. *Chirality*. 2015 Jun;27(6):392-6. doi: 10.1002/chir.22457. Epub 2015 May 12. PubMed PMID: 25965955.

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