

Fluprostenol, (+)-

Chemical Properties

CAS No.:	54276-17-4
Formula:	C ₂₃ H ₂₉ F ₃ O ₆
Molecular Weight:	458.47
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Fluprostenol, (+)-, an analog of Prostaglandin F _{2α} , possesses potent FP receptor agonist activity.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.181 mL	10.906 mL	21.812 mL
5 mM	0.436 mL	2.181 mL	4.362 mL
10 mM	0.218 mL	1.091 mL	2.181 mL
50 mM	0.044 mL	0.218 mL	0.436 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 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Baryla M, Kaczynski P, Goryszewska E, Riley SC, Wacławik A. Prostaglandin F(2α) stimulates adhesion, migration, invasion and proliferation of the human trophoblast cell line HTR-8/SVneo. Placenta. 2019 Feb;77:19-29. doi: 10.1016/j.placenta.2019.01.020. Epub 2019 Jan 24. PubMed PMID: 30827352.
2. Gao L, Gao R, Mao W, Liu B, Zhang S, Tahala D, Fu C, Shen Y, Wu J, Deng Y, Li Q, Cao J. PTGFR activation promotes the expression of PTGS-2 and growth factors via activation of the PKC signaling pathway in bovine endometrial epithelial cells. Anim Reprod Sci. 2018 Dec;199:30-39. doi:10.1016/j.anireprosci.2018.10.003. Epub 2018 Oct 14. PubMed PMID: 30340853.
3. Zhang S, Liu B, Gao L, Mao W, Fu C, Duritahala D, Zhang N, Zhang Y, Shen Y, Cao J. Prostaglandin F(2α)-PTGFR signalling activation, growth factor expression and cell proliferation in bovine endometrial explants. Reprod Fertil Dev. 2017 Oct;29(11):2195-2205. doi: 10.1071/RD16144. PubMed PMID: 28298246.
4. Ahmad SF, Akoum A, Horne AW. Selective modulation of the prostaglandin F_{2α} pathway markedly impacts on endometriosis progression in a xenograft mouse model. Mol Hum Reprod. 2015 Dec;21(12):905-16. doi: 10.1093/molehr/gav056. Epub 2015 Oct 15. PubMed PMID: 26472819.

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