

## Unoprostone isopropyl

**Chemical Properties**

CAS No.:	120373-24-2
Formula:	C <sub>25</sub> H <sub>44</sub> O <sub>5</sub>
Molecular Weight:	424.62
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Unoprostone isopropyl, a prostanoid and synthetic docosanoid, is approved for the treatment of ocular hypertension and open-angle glaucoma.
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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	2.355 mL	11.775 mL	23.550 mL
5 mM	0.471 mL	2.355 mL	4.710 mL
10 mM	0.236 mL	1.178 mL	2.355 mL
50 mM	0.047 mL	0.236 mL	0.471 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. Akiyama M, Ikeda Y, Yoshida N, Notomi S, Murakami Y, Hisatomi T, Enaida H, Ishibashi T. Therapeutic efficacy of topical unoprostone isopropyl in retinitis pigmentosa. *Acta Ophthalmol.* 2014 May;92(3):e229-34. PubMed PMID: 24868583.
2. Tanano I, Nagaoka T, Ono S, Omae T, Otani S, Yoshida A. Vasodilatory mechanisms of unoprostone isopropyl in isolated porcine retinal arterioles. *Mol Vis.* 2015 Jun 12;21:699-705. eCollection 2015. PubMed PMID: 26120274; PubMed Central PMCID: PMC4463970.
3. Harms NV, Toris CB. Current status of unoprostone for the management of glaucoma and the future of its use in the treatment of retinal disease. *Expert Opin Pharmacother.* 2013 Jan;14(1):105-13. doi: 10.1517/14656566.2013.748038. Epub 2012 Nov 30. Review. PubMed PMID: 23199345.
4. Cuppoletti J, Malinowska DH, Tewari KP, Chakrabarti J, Ueno R. Unoprostone isopropyl and metabolite M1 activate BK channels and prevent ET-1-induced [Ca<sup>2+</sup>]<sub>i</sub> increases in human trabecular meshwork and smooth muscle. *Invest Ophthalmol Vis Sci.* 2012 Aug 7;53(9):5178-89. doi: 10.1167/iops.11-9046. PubMed PMID: 22786902.

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