

Ketorolac

Chemical Properties

CAS No. :	74103-06-3
Formula:	C ₁₅ H ₁₃ NO ₃
Molecular Weight:	255.269
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Ketorolac (Acuvail) is a non-steroidal anti-inflammatory drug (NSAID) in the family of heterocyclic acetic acid derivatives. It acts by inhibiting the bodily synthesis of prostaglandins.
Targets(IC50)	Apoptosis,COX

Solubility Information

Solubility	DMSO: 45.00 mg/mL (176.28 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9174 mL	19.5871 mL	39.1742 mL
5 mM	0.7835 mL	3.9174 mL	7.8348 mL
10 mM	0.3917 mL	1.9587 mL	3.9174 mL
50 mM	0.0783 mL	0.3917 mL	0.7835 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

Lawuyi LE, Gurbaxani A. The clinical utility of new combination phenylephrine/ketorolac injection in cataract surgery. Clin Ophthalmol. 2015 Jul 10;9:1249-54. doi: 10.2147/OPTH.S72321. eCollection 2015. Review. PubMed PMID: 26203214; PubMed Central PMCID: PMC4506037.

Chan DK, Parikh SR. Perioperative ketorolac increases post-tonsillectomy hemorrhage in adults but not children. Laryngoscope. 2014 Aug;124(8):1789-93. doi: 10.1002/lary.24555. Epub 2014 May 27. Review.

Ketorolac for Pain Management: A Review of the Clinical Evidence [Internet]. Ottawa (ON): Canadian Agency for Drugs and Technologies in Health; 2014 Jun 30.

Baley K, Michalov K, Kossick MA, McDowell M. Intravenous acetaminophen and intravenous ketorolac for management of pediatric surgical pain: a literature review. AANA J. 2014 Feb;82(1):53-64. Review.

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