

Drotaverine Hydrochloride

Chemical Properties

CAS No.:	14009-24-6
Formula:	C ₂₄ H ₃₂ ClNO ₄
Molecular Weight:	433.97
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Drotaverine Hydrochloride is a selective inhibitor of phosphodiesterase 4.
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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	2.304 mL	11.522 mL	23.043 mL
5 mM	0.461 mL	2.304 mL	4.609 mL
10 mM	0.230 mL	1.152 mL	2.304 mL
50 mM	0.046 mL	0.230 mL	0.461 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. Lajtai A, Mayer M, Lakatos Á, Porpáczy Z, Miseta A. Embutramide, a Component of Tanax(®) (T-61) as a New Drug of Abuse? J Forensic Sci. 2016 Mar;61(2):573-575. doi: 10.1111/1556-4029.13010. Epub 2016 Feb 1. PubMed PMID: 27404634.
2. Vijay Kumar R, Rao VU, Anil Kumar N, Venkata Subbaiah B. A Novel, Rapid, and Validated Stability-Indicating UPLC Method for the Estimation of Drotaverine Hydrochloride and Ibuprofen Impurities in Oral Solid Dosage Form. Sci Pharm. 2015 Apr 13;83(4):567-81. doi: 10.3797/scipharm.1503-02. Print 2015 Oct-Dec. PubMed PMID: 26839839; PubMed Central PMCID: PMC4727724.
3. Narang M, Shah D, Akhtar H. Efficacy and Safety of Drotaverine Hydrochloride in Children with Recurrent Abdominal Pain: A Randomized Placebo Controlled Trial. Indian Pediatr. 2015 Oct;52(10):847-51. PubMed PMID: 26499007.
4. Tomaszewski D, Bałkota M. Intramuscular Administration of Drotaverine Hydrochloride Decreases Both Incidence of Urinary Retention and Time to Micturition in Orthopedic Patients under Spinal Anesthesia: A Single Blinded Randomized Study. Biomed Res Int. 2015;2015:926953. doi: 10.1155/2015/926953. Epub 2015 Jun 21. PubMed PMID: 26185766; PubMed Central PMCID: PMC4491383.

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