

Enprofylline

Chemical Properties

CAS No.:	41078-02-8
Formula:	C ₈ H ₁₀ N ₄ O ₂
Molecular Weight:	194.19
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Enprofylline, a bronchodilator, acts primarily as a competitive nonselective phosphodiesterase inhibitor. Enprofylline is used in asthma, chronic obstructive pulmonary disease, and in the management of sickle cell disease, diabetic neuropathy, and cerebrovascular insufficiency.
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Solubility Information

Solubility	Water: Insoluble 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	5.150 mL	25.748 mL	51.496 mL
5 mM	1.030 mL	5.150 mL	10.299 mL
10 mM	0.515 mL	2.575 mL	5.150 mL
50 mM	0.103 mL	0.515 mL	1.030 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. Mojsilovic-Petrovic J, Arneja A, Kalb RG. Enprofylline protects motor neurons from in vitro excitotoxic challenge. *Neurodegener Dis.* 2005;2(3-4):160-5. PubMed PMID: 16909021.
2. Feoktistov I, Biaggioni I. Adenosine A2b receptors evoke interleukin-8 secretion in human mast cells. An enprofylline-sensitive mechanism with implications for asthma. *J Clin Invest.* 1995 Oct;96(4):1979-86. PubMed PMID: 7560091; PubMed Central PMCID: PMC185836.
3. Chapman KR, Ljungholm K, Kallen A. Long-term xanthine therapy of asthma. Enprofylline and theophylline compared. International Enprofylline Study Group. *Chest.* 1994 Nov;106(5):1407-13. PubMed PMID: 7956392.
4. Nadai M, Hasegawa T, Wang L, Tagaya O, Nabeshima T. Alterations in the pharmacokinetics and protein binding of enprofylline in Eisai hyperbilirubinemic rats. *Drug Metab Dispos.* 1994 Jul-Aug;22(4):561-5. PubMed PMID: 7956730.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481