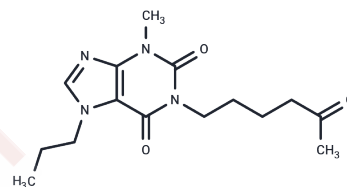


Propentofylline

Chemical Properties

CAS No. :	55242-55-2
Formula:	C ₁₅ H ₂₂ N ₄ O ₃
Molecular Weight:	306.36
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Propentofylline (Hexitol) is a methylxanthine derivative with neuroprotective, antiproliferative, and anti-inflammatory activity and enhanced synaptic adenosine signaling, which may be useful in the study of Alzheimer's disease, vascular dementia, cognitive impairment, dementia, and chronic pain.
Targets(IC50)	PDE

Solubility Information

Solubility	DMSO: 5 mg/mL (16.32 mM), 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	3.2641 mL	16.3207 mL	32.6413 mL
5 mM	0.6528 mL	3.2641 mL	6.5283 mL
10 mM	0.3264 mL	1.6321 mL	3.2641 mL
50 mM	0.0653 mL	0.3264 mL	0.6528 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

Hudlicka O, et al. The effect of a xanthine derivative, 1-(5' oxohexyl)-3-methyl-7-propylxanthine (HWA 285), on heart performance and regional blood flow in dogs and rabbits. *Br J Pharmacol.* 1981;72(4):723-730.

Sweitzer S, et al. Propentofylline: glial modulation, neuroprotection, and alleviation of chronic pain. *Handb Exp Pharmacol.* 2011;(200):235-250.

Landry RP, et al. Propentofylline, a CNS glial modulator does not decrease pain in post-herpetic neuralgia patients: in vitro evidence for differential responses in human and rodent microglia and macrophages. *Exp Neurol.* 2012 Apr;234(2):340-50.

Parkinson FE, et al. Propentofylline: a nucleoside transport inhibitor with neuroprotective effects in cerebral ischemia. *Gen Pharmacol.* 1994 Oct;25(6):1053-8.

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