

Propentofylline

Chemical Properties

CAS No.:	55242-55-2
Formula:	C ₁₅ H ₂₂ N ₄ O ₃
Molecular Weight:	306.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Propentofylline is a phosphodiesterase inhibitor with a neuroprotective effect. It acts as an inhibitor of adenosine reuptake.
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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	3.264 mL	16.321 mL	32.641 mL
5 mM	0.653 mL	3.264 mL	6.528 mL
10 mM	0.326 mL	1.632 mL	3.264 mL
50 mM	0.065 mL	0.326 mL	0.653 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. Sahoo AK, Dandapat J, Dash UC, Kanhar S. Features and outcomes of drugs for combination therapy as multi-targets strategy to combat Alzheimer's disease. *J Ethnopharmacol.* 2017 Dec 14. pii: S0378-8741(17)32077-9. doi: 10.1016/j.jep.2017.12.015. [Epub ahead of print] Review. PubMed PMID: 29248451.
2. Nijs J, Loggia ML, Polli A, Moens M, Huysmans E, Goudman L, Meeus M, Vanderweeën L, Ickmans K, Clauw D. Sleep disturbances and severe stress as glial activators: key targets for treating central sensitization in chronic pain patients? *Expert Opin Ther Targets.* 2017 Aug;21(8):817-826. doi: 10.1080/14728222.2017.1353603. Epub 2017 Jul 12. Review. PubMed PMID: 28685641.
3. Walters ET. Neuroinflammatory contributions to pain after SCI: roles for central glial mechanisms and nociceptor-mediated host defense. *Exp Neurol.* 2014 Aug;258:48-61. doi: 10.1016/j.expneurol.2014.02.001. Review. PubMed PMID: 25017887.
4. Hirota T, Kishi T. Adenosine hypothesis in schizophrenia and bipolar disorder: a systematic review and meta-analysis of randomized controlled trial of adjuvant purinergic modulators. *Schizophr Res.* 2013 Sep;149(1-3):88-95. doi: 10.1016/j.schres.2013.06.038. Epub 2013 Jul 18. Review. PubMed PMID: 23870805.

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