Data Sheet (Cat.No.T35048)

TargetMol

Verofylline

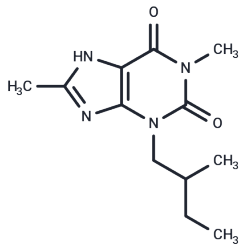
Chemical Properties

CAS No. : 66172-75-6

Formula: C12H18N4O2

Molecular Weight: 250.3

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	Verofylline (Verofyllinum) is an orally available, long-acting, multiacting, methylxanthine-substituted bronchodilator with inhibitory effects on PDE4 for the treatment of asthma disease research obesity.
Targets(IC50)	PDE

Solubility Information

Solubility	DMSO: 60 mg/mL (239.71 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9952 mL	19.976 mL	39.9521 mL
5 mM	0.799 mL	3.9952 mL	7.9904 mL
10 mM	0.3995 mL	1.9976 mL	3.9952 mL
50 mM	0.0799 mL	0.3995 mL	0.799 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

Young RC Jr, et al. Verofylline, a methylxanthine bronchodilator, in asthma. Clin Pharmacol Ther. 1984 Dec;36(6):811-6.
Shum L, et al. Verofylline pharmacokinetics in dietary-induced obese rats: role of fat mass and protein binding in determining volume of distribution. Xenobiotica. 1991 Nov;21(11):1419-30.
Shum L, et al. Reversed-phase high-performance liquid chromatographic determination of verofylline in rat serum. J Chromatogr. 1986 Oct 31;382:207-13.
Grassi C, et al. Clinical efficacy trial: theophylline vs (dl) 3,7-dihydro-1,8-dimethyl-3-(2-methylbutyl)-1H-purine-2,6-dione. Int J Clin Pharmacol Ther Toxicol. 1980 Dec;18(12):518-22.

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