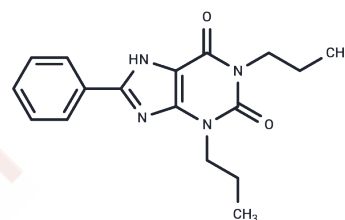


Adenosine receptor A1 antagonist 5

Chemical Properties

CAS No. :	85872-53-3
Formula:	C ₁₇ H ₂₀ N ₄ O ₂
Molecular Weight:	312.37
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	Adenosine receptor A1 antagonist 5 acts as an adenosine antagonist, is an oxypurine, acts as an insecticide and pest control agent, and has an inhibitory effect on elevated blood pressure.
Targets(IC50)	cAMP, Adenosine Receptor

Solubility Information

Solubility	Ethanol: 4.5 mg/mL (14.41 mM), Sonication is recommended. DMSO: 8 mg/mL (25.61 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	3.2013 mL	16.0067 mL	32.0133 mL
5 mM	0.6403 mL	3.2013 mL	6.4027 mL
10 mM	0.3201 mL	1.6007 mL	3.2013 mL
50 mM	0.064 mL	0.3201 mL	0.6403 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

Ukena D, et al. Species differences in structure-activity relationships of adenosine agonists and xanthine antagonists at brain A1 adenosine receptors. *FEBS Lett.* 1986 ; 209(1):122-128.

Gmiro VE, et al. Izbiratel'nost' deĭstviia 1,3-dipropil-8-fenilksantina na purinovyte retseptory kishechnika [Selectivity of the action of 1,3-dipropyl-8-phenylxanthine on the purine receptors of the intestines]. *Farmakol Toksikol.* 1988 ; 51(4):60-62.

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