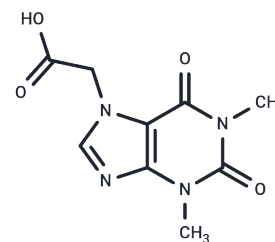


Acefylline

Chemical Properties

CAS No. :	652-37-9
Formula:	C ₉ H ₁₀ N ₄ O ₄
Molecular Weight:	238.2
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	Acefylline (Theophylline-7-acetic acid), a stimulant drug of the xanthine chemical class, acts as an adenosine receptor antagonist. It is combined with diphenhydramine in the pharmaceutical preparation Etanautine to help offset its stimulant effects
Targets(IC50)	HDAC, Adenosine Receptor, PAD, PDE, PKA, TNF

Solubility Information

Solubility	DMSO: 111.11 mg/mL (466.46 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (41.98 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (41.98 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1982 mL	20.9908 mL	41.9815 mL
5 mM	0.8396 mL	4.1982 mL	8.3963 mL
10 mM	0.4198 mL	2.0991 mL	4.1982 mL
50 mM	0.084 mL	0.4198 mL	0.8396 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

Voynikov Y, et al. Bioorg Med Chem Lett. 2014 Jul 15; 24(14):3043-5.

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