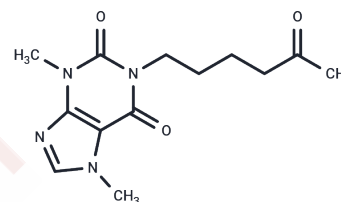


Pentoxifylline

Chemical Properties

CAS No. :	6493-05-6
Formula:	C ₁₃ H ₁₈ N ₄ O ₃
Molecular Weight:	278.31
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	Pentoxifylline (PTX) modulates immunologic activity by stimulating cytokine production. Pentoxifylline is a methylxanthine derivative that inhibits phosphodiesterase and affects blood rheology. It also inhibits platelet aggregation and improves blood flow by increasing erythrocyte and leukocyte flexibility.
Targets(IC50)	HIV Protease, Adenosine Receptor, Autophagy, PDE

Solubility Information

Solubility	H ₂ O: 50.8 mg/mL (182.53 mM), Sonication is recommended. DMSO: 49 mg/mL (176.06 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	3.5931 mL	17.9656 mL	35.9312 mL
5 mM	0.7186 mL	3.5931 mL	7.1862 mL
10 mM	0.3593 mL	1.7966 mL	3.5931 mL
50 mM	0.0719 mL	0.3593 mL	0.7186 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

Daly JW, et al. Prog Clin Biol Res. 1987;230:41-63.

Yan E, Jiang J, Ren X, et al. Polycaprolactone/polyvinyl alcohol core-shell nanofibers as a pH-responsive drug carrier for the potential application in chemotherapy against colon cancer. Materials Letters. 2021, 291: 129516.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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