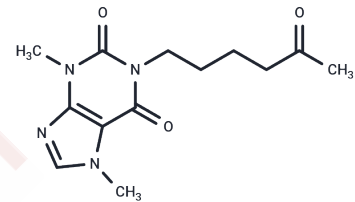


Pentoxifylline

Chemical Properties

CAS No. :	6493-05-6
Formula:	C13H18N4O3
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	H2O: 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)
In vivo Formulation	10% DMSO+90% Saline: 4.9 mg/mL (17.61 mM), Solution. <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	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.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481