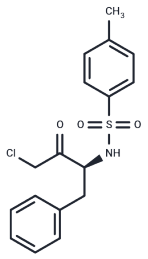
Data Sheet (Cat.No.T8350)

TPCK

Chemical Properties



CAS No. : 402-71-1

Formula: C17H18ClNO3S

Molecular Weight: 351.85

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	TPCK is an irreversible inhibitor of chymotrypsin-like proteases that affect cell proliferation, apoptosis, and tumorigenesis
Targets(IC50)	Apoptosis,Proteasome,PDK,Serine Protease,Virus Protease

Solubility Information

Solubility	DMSO: 250 mg/mL (710.53 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: 2 mg/mL (5.68 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (28.42 mM),Suspension. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8421 mL	14.2106 mL	28.4212 mL
5 mM	0.5684 mL	2.8421 mL	5.6842 mL
10 mM	0.2842 mL	1.4211 mL	2.8421 mL
50 mM	0.0568 mL	0.2842 mL	0.5684 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

Rana Anjum , Eunice Pae,et al.TPCK Inhibits AGC Kinases by Direct Activation Loop Adduction at Phenylalanine-Directed Cysteine Residues. FEBS Lett. 2012 Sep 21;586(19):3471-6.
Cocco E, et al. KAT3B-p300 and H3AcK18/H3AcK14 levels are prognostic markers for kidney ccRCC tumoraggressiveness and target of KAT inhibitor CPTH2. Clin Epigenetics. 2018 Apr 4;10:44.

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