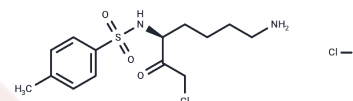


N-alpha-Tosyl-L-lysine chloromethyl ketone hydrochloride

Chemical Properties

CAS No. :	4272-74-6
Formula:	C ₁₄ H ₂₂ Cl ₂ N ₂ O ₃ S
Molecular Weight:	369.31
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	N-alpha-Tosyl-L-lysine chloromethyl ketone hydrochloride (N-alpha-Tosyl-L-lysine_chloromethyl_ketone_hydrochloride) is an inhibitor of trypsin-like protease and exhibits an inhibitory effect on IFN- γ activities.
Targets(IC50)	Others,Amino Acids and Derivatives,Proteasome,COX
In vitro	A lower concentration of anti-Fas (10 ng/mL) is used to examine the interaction among the three effectors simultaneously, that is, anti-Fas, TLCK, and IFN- γ . N-alpha-Tosyl-L-lysine chloromethyl ketone hydrochloride (50 μ M) exhibits a small decrease in cell viability. Beyond 50 μ M, a dose-dependent decrease in cell viability is observed. IFN- γ slightly reduces cell viability on its own. The addition of anti-Fas (10 ng/mL) results in a slight decrease in cell survival, which is enhanced more than additively in the presence of TLCK, most prominently between 50 and 100 μ M. Upon addition of both anti-Fas and IFN- γ , a decrease (\approx 46%) in cell viability is observed. Moreover, the decrease in cell survival is further enhanced by the addition of higher concentrations of TLCK, 25 μ M, and more[1].

Solubility Information

Solubility	H ₂ O: 95 mg/mL (257.24 mM),Sonication is recommended. DMSO: 245 mg/mL (663.4 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: 5 mg/mL (13.54 mM),Sonication is recommended. <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	2.7078 mL	13.5388 mL	27.0775 mL
5 mM	0.5416 mL	2.7078 mL	5.4155 mL
10 mM	0.2708 mL	1.3539 mL	2.7078 mL
50 mM	0.0542 mL	0.2708 mL	0.5416 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

Shadrin N, et al. Serine protease inhibitors interact with IFN- γ through up-regulation of FasR; a novel therapeutic strategy against cancer. *Exp Cell Res.* 2015 Jan 15;330(2):233-9.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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