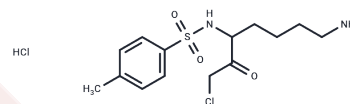


N-a-Tosyl-L-lysiny-chloromethylketone hydrochloride

Chemical Properties

CAS No. : 4238-41-9
 Formula: C₁₄H₂₂Cl₂N₂O₃S
 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-a-Tosyl-L-lysiny-chloromethylketone hydrochloride (TLCK hydrochloride) is an irreversible serine protease inhibitor that functions by alkylating the histidine residue at the active site, thus inhibiting trypsin and trypsin-like proteases. It effectively inhibits caspase-3, caspase-6, and caspase-7 with IC ₅₀ values of 12.0, 54.5, and 19.3 μM, respectively. Additionally, N-a-Tosyl-L-lysiny-chloromethylketone hydrochloride induces apoptosis in HL-60 cells and prevents the reduction of mitochondrial transmembrane potential during the apoptosis process.
Targets(IC ₅₀)	Caspase,Serine Protease

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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