

C25-140

Chemical Properties

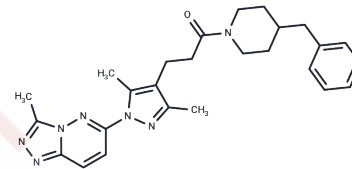
CAS No. : 1358099-18-9

Formula: C₂₆H₃₁N₇O

Molecular Weight: 457.57

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	C25-140 is a small-molecule inhibitor of TRAF6-Ubc13.
Targets(IC50)	E1/E2/E3 Enzyme,NF-κB,TNF
In vitro	C25-140 inhibits the interaction between TRAF6 and Ubc13 in a dose-dependent manner. At concentrations of 10-30 μM over 2 hours, it effectively reduces TRAF6-mediated ubiquitin chain formation.
Cell Research	Cell Line:TRAF6WT . Concentration:10 μM, 20 μM, 30 μM . Incubation Time:2 hours

Solubility Information

Solubility	DMSO: 62.5 mg/mL (136.59 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 (4.37 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	2.1855 mL	10.9273 mL	21.8546 mL
5 mM	0.4371 mL	2.1855 mL	4.3709 mL
10 mM	0.2185 mL	1.0927 mL	2.1855 mL
50 mM	0.0437 mL	0.2185 mL	0.4371 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

Kerstin B J , Maria P G , Kenji S , et al. Targeting TRAF6 E3 ligase activity with a small molecule inhibitor combats autoimmunity[J]. Journal of Biological Chemistry, 2018:jbc.RA118.002649-.

Zhao G, Tong Y, Xu J, et al. Jing-Fang powder ethyl acetate extracts attenuate atopic dermatitis by modulating T-cell activity. Molecular Immunology. 2023, 160: 133-149.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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