

BC-1382

Chemical Properties

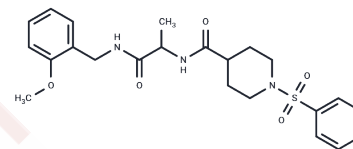
CAS No. : 1013753-99-5

Formula: C₂₃H₂₉N₃O₅S

Molecular Weight: 459.56

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	BC-1382 is a potent ubiquitin E3 ligase HECTD2 inhibitor that specifically disrupts the HECTD2/PIAS1 interaction (IC ₅₀ of 5 nM).
Targets (IC ₅₀)	E1/E2/E3 Enzyme
In vitro	BC-1382, that targeted HECTD2 and attenuated lipopolysaccharide (LPS)- and Pseudomonas aeruginosa-induced lung inflammation.

Solubility Information

Solubility	DMSO: 55 mg/mL (119.68 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 (4.35 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	2.176 mL	10.880 mL	21.7599 mL
5 mM	0.4352 mL	2.176 mL	4.352 mL
10 mM	0.2176 mL	1.088 mL	2.176 mL
50 mM	0.0435 mL	0.2176 mL	0.4352 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

Coon T A , Mckelvey A C , Lear T , et al. The proinflammatory role of HECTD2 in innate immunity and experimental lung injury[J]. *ence Translational Medicine*, 2015, 7(295):295ra109.

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