

BC-1215

Chemical Properties

CAS No. : 1507370-20-8

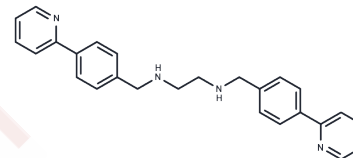
Formula: C₂₆H₂₆N₄

Molecular Weight: 394.51

Keep away from direct sunlight

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-1215 is an inhibitor of F-box protein 3 (FBXO3, a ubiquitin E3 ligase component, IC ₅₀ =0.9 µg/mL for IL-1β release).
Targets(IC ₅₀)	E3 Ligase Ligand-Linker Conjugates,Ligands for E3 Ligase
In vivo	A small molecule inhibitor BC-1215 argeting Fbxo3 was sufficient to lessen severity of cytokine-driven inflammation in several murine disease models.
Animal Research	Tested effects of administration of BC-1215 in a model of a cecal ligation and puncture (CLP)-induced sepsis. Mice with CLP had significantly increased cytokine release compared to sham treated mice. BC-1215 treatment significantly attenuated CLP-induced secretion of all three circulating pro-inflammatory cytokines in mice . BC-1215 also decreased bacterial counts in the CLP model and modestly produced inhibition of bacterial growth using Kirby Bauer testing

Solubility Information

Solubility	DMSO: 3.95 mg/mL (10.01 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: 1 mg/mL (2.53 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	2.5348 mL	12.6739 mL	25.3479 mL
5 mM	0.507 mL	2.5348 mL	5.0696 mL
10 mM	0.2535 mL	1.2674 mL	2.5348 mL
50 mM	0.0507 mL	0.2535 mL	0.507 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

Bill B. Chen, Tiffany A. Coon, Jennifer R. Glasser, et, al. A combinatorial F box protein directed pathway controls TRAF adaptor stability to regulate inflammation[J]. Nat Immunol. 2013 May; 14(5): 470-479.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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