

Cbl-b-IN-3

Chemical Properties

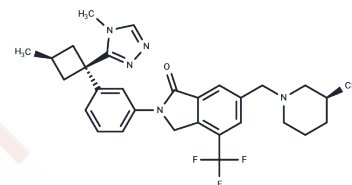
CAS No. : 2573775-59-2

Formula: C₃₀H₃₄F₃N₅O

Molecular Weight: 537.62

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	Cbl-b-IN-3 is a potent inhibitor of casitas b lineage lymphoma proto-oncogene-b (Cbl-b) (ic ₅₀ < 1 nM).
Targets(IC ₅₀)	E1/E2/E3 Enzyme
In vitro	METHODS: The ability to inhibit Cbl-b activity was determined by monitoring the interaction of Cbl-b with a fluorophore-labeled probe in the presence of Cbl-b-IN-3. RESULTS The IC ₅₀ value of Cbl-b-IN-3 inhibiting Cbl-b is less than 1 nM. [1]

Solubility Information

Solubility	DMSO: 11.15 mg/mL (20.74 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: 1.12 mg/mL (2.08 mM),Solution. 10% DMSO+90% Saline: < 1.12 mg/mL (2.08 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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	1.860 mL	9.3002 mL	18.6005 mL
5 mM	0.372 mL	1.860 mL	3.7201 mL
10 mM	0.186 mL	0.930 mL	1.860 mL
50 mM	0.0372 mL	0.186 mL	0.372 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

Arthur T. Sands, et al. Substituted benzyl-triazole compounds for cbl-b inhibition, and further uses thereof. WO2020264398A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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