

Iberdomide

Chemical Properties

CAS No. : 1323403-33-3

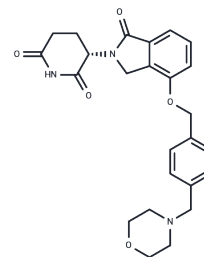
Formula: C₂₅H₂₇N₃O₅

Molecular Weight: 449.5

Store at low temperature

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	Iberdomide (CC-220) is a modulator of cereblon(IC50 value of 60 nM in a competitive TR-FRET assay).
Targets(IC50)	Apoptosis,E3 Ligase Ligand-Linker Conjugates,Ligands for E3 Ligase,Molecular Glues
In vitro	Iberdomide has a greater potency for degrading the CRL4 complex substrates Ikaros and Aiolos (EC50s = 1 and 0.5 nM) but has no degradative activity for GSPT1 or CK1α[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (111.23 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 (4.45 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	2.2247 mL	11.1235 mL	22.2469 mL
5 mM	0.4449 mL	2.2247 mL	4.4494 mL
10 mM	0.2225 mL	1.1123 mL	2.2247 mL
50 mM	0.0445 mL	0.2225 mL	0.4449 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

Matyskiela M E , Zhang W , Man H W , et al. A Cereblon Modulator (CC-220) with Improved Degradation of Ikaros and Aiolos[J]. Journal of Medicinal Chemistry, 2017:acs.jmedchem.6b01921.

Li P, Hu X, Fan Z, et al. Novel potent molecular glue degraders against broad range of hematological cancer cell lines via multiple neosubstrates degradation. Journal of Hematology & Oncology. 2024, 17(1): 77.

Peter, H, Schafer, et al. Cereblon modulator iberdomide induces degradation of the transcription factors Ikaros and Aiolos: immunomodulation in healthy volunteers and relevance to systemic lupus erythematosus.[J]. Annals of the Rheumatic Diseases, 2017.

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