

Lenalidomide-C9-aldehyde

Chemical Properties

CAS No. :

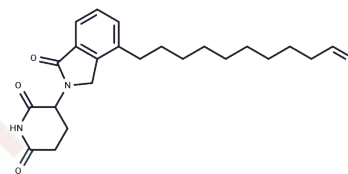
Formula: C₂₃H₃₀N₂O₄

Molecular Weight: 398.5

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	Lenalidomide-C9-aldehyde is a synthesized E3 ligase ligand-linker conjugate that incorporates the Lenalidomide based cereblon ligand and a linker. Lenalidomide-C9-aldehyde can be used in the synthesis of a series of PROTACs, such as INY-03-041. INY-03-041 is a potent, highly selective and PROTAC-based pan-Akt degrader. INY-03-041 inhibits Akt1, Akt2 and Akt3 with IC ₅₀ s of 2.0 nM, 6.8 nM and 3.5 nM, respectively[1].
Targets(IC ₅₀)	Others,PROTAC Linker
In vitro	Lenalidomide is a recruiter of the E3 ubiquitin ligase substrate adaptor Cereblon (CRBN). INY-03-041 is a pan-AKT degrader consisting of the ATP-competitive AKT inhibitor GDC-0068 conjugated to Lenalidomide by a linker[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5094 mL	12.5471 mL	25.0941 mL
5 mM	0.5019 mL	2.5094 mL	5.0188 mL
10 mM	0.2509 mL	1.2547 mL	2.5094 mL
50 mM	0.0502 mL	0.2509 mL	0.5019 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

You I, et al. Discovery of an AKT Degrader with Prolonged Inhibition of Downstream Signaling. Cell Chem Biol. 2020 Jan 16;27(1):66-73.e7.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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