

Lenalidomide-C9-aldehyde

Chemical Properties

CAS No.:	T18065
Formula:	C ₂₃ H ₃₀ N ₂ O ₄
Molecular Weight:	398.5
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

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)	Cereblon: None
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].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.509 mL	12.547 mL	25.094 mL
5 mM	0.502 mL	2.509 mL	5.019 mL
10 mM	0.251 mL	1.255 mL	2.509 mL
50 mM	0.05 mL	0.251 mL	0.502 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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