Data Sheet (Cat.No.T38985)

TargetMol®
YOUR TARGET MOLECULES

Thalidomide-5,6-F

Chemical Properties

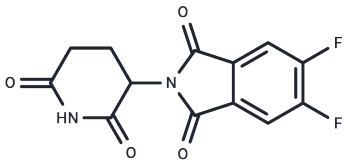
CAS No. : 1496997-41-1

Formula: C13H8F2N2O4

Molecular Weight: 294.21

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Thalidomide-5,6-F is a cereblon ligand derived from Thalidomide that is utilized for the recruitment of CRBN protein. It can be conjugated to a protein ligand through a linker, thus enabling the formation of PROTACs, a class of molecules with targeted protein degradation capabilities.
In vitro	PROTACs contain two different ligands connected by a linker; one is a ligand for an E3 ubiquitin ligase and the other is for the target protein. PROTACs exploit the intracellular ubiquitin-proteasome system to selectively degrade target proteins[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3989 mL	16.9947 mL	33.9893 mL
5 mM	0.6798 mL	3.3989 mL	6.7979 mL
10 mM	0.3399 mL	1.6995 mL	3.3989 mL
50 mM	0.068 mL	0.3399 mL	0.6798 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.

Reference

Liu K, et al. Design and biological characterization of hybrid compounds of curcumin and thalidomide for multiple myeloma. Org Biomol Chem. 2013;11(29):4757-4763.

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