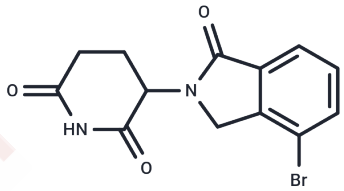
# Data Sheet (Cat.No.T18064)

TargetMol

## Lenalidomide-Br

### Chemical Properties




CAS No. : 2093387-36-9

Formula: C13H11BrN2O3

Molecular Weight: 323.14

Storage: Keep away from direct sunlight
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-Br (Compound 41), a derivative of Lenalidomide, acts as a ligand for cereblon (CRBN) - an E3 ubiquitin ligase involved in protein recruitment. This compound can be conjugated to a protein ligand via a linker to create PROTACs, such as the PROTAC STAT3 degrader SD-36. |
| Targets(IC50) | Ligands for E3 Ligase,PROTAC Linker |
| In vitro | Lenalidomide-Br can be conjugated to a protein ligand via a linker, forming PROTACs that induce the ubiquitination-mediated degradation of oncogenic proteins. |
| In vivo | Lenalidomide-Br can form a PROTAC by coupling with a protein's ligand. PROTAC acts as an inducer of ubiquitin-mediated degradation of oncogenic proteins [1][2]. |

### Solubility Information

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|---|---|
| Solubility | DMSO: 30 mg/mL (92.84 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (3.09 mM),Sonication is recommended.<br>*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.* |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 3.0946 mL | 15.4732 mL | 30.9463 mL |
| 5 mM | 0.6189 mL | 3.0946 mL | 6.1893 mL |
| 10 mM | 0.3095 mL | 1.5473 mL | 3.0946 mL |
| 50 mM | 0.0619 mL | 0.3095 mL | 0.6189 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

Bai L, et al. A Potent and Selective Small-Molecule Degrader of STAT3 Achieves Complete Tumor Regression In Vivo. Cancer Cell. 2019 Nov 11;36(5):498-511.e17.
Zhou B, et al. Discovery of a Small-Molecule Degrader of Bromodomain and Extra-Terminal (BET) Proteins with Picomolar Cellular Potencies and Capable of Achieving Tumor Regression. J Med Chem. 2018 Jan 25;61(2):462-481.