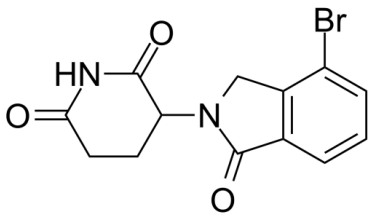
Data Sheet

Product Name:	Lenalidomide-Br
Cat. No.:	CS-0091191
CAS No.:	2093387-36-9
Molecular Formula:	C13H11BrN2O3
Molecular Weight:	323.14
Target:	Ligand for E3 Ligase
Pathway:	PROTAC
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Lenalidomide-Br (Compound 41) is the Lenalidomide-based ligand and interacts with E3 ligase cereblon. Lenalidomide-Br can be connected to the ligand for protein by a linker to form PROTACs. PROTACs are inducers of ubiquitination-mediated degradation of cancer-promoting proteins[1][2].

References:

[1]. 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.

[2]. 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.

CAIndexNames:

2,6-Piperidinedione, 3-(4-bromo-1,3-dihydro-1-oxo-2H-isoindol-2-yl)-

SMILES:

O=C(C(N(CC1=C2C=CC=C1Br)C2=O)CC3)NC3=O

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