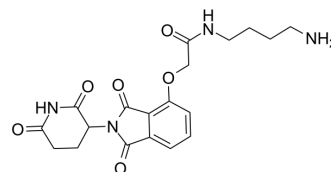


Thalidomide-O-amido-C4-NH₂

Cat. No.:	HY-107438
CAS No.:	1799711-24-2
Molecular Formula:	C ₁₉ H ₂₂ N ₄ O ₆
Molecular Weight:	402.4
Target:	E3 Ligase Ligand-Linker Conjugates
Pathway:	PROTAC
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Thalidomide-O-amido-C4-NH ₂ (Cereblon Ligand-Linker Conjugates 6), a synthesized E3 ligase ligand-linker conjugate that incorporates the Thalidomide based cereblon ligand and a linker, can be used in the synthesis of PROTACs ^[1] .
IC₅₀ & Target	Cereblon
In Vitro	Thalidomide-O-amido-C4-NH ₂ is an amine intermediate (Compound 41), which can be used as a heterobifunctional PROTAC BET degrader. The bromodomain and extra-terminal (BET) family proteins, consisting of BRD2, BRD3, BRD4, and testis-specific BRDT members, are epigenetic “readers” and play a key role in the regulation of gene transcription. BET proteins are considered to be attractive therapeutic targets for cancer and other human diseases. Recently, heterobifunctional small-molecule BET degraders have been designed based upon the proteolysis targeting chimera (PROTAC) concept to induce BET protein degradation ^[1] . Thalidomide-O-amido-C4-NH ₂ is a degron-linker (refer to Compound DL6-TL). Degron-linker-targeting ligand, wherein the linker is covalently bound to at least one degron and at least one targeting ligand, the degron is a compound capable of binding to an ubiquitin ligase such as an E3 ubiquitin ligase (e.g., cereblon), and the targeting ligand is capable of binding to the targeted protein (s) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhou B, et al. Discovery of a Small-Molecule Degradable 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.

[2]. James Bradner, et al. Methods to induce targeted protein degradation through bifunctional molecules. WO 2017024317 A2.

Caution: Product has not been fully validated for medical applications. For research use only.

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