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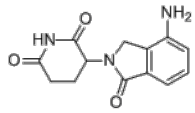
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Lenalidomide
Cat. No.	:	PC-20467
CAS No.	:	191732-72-6
Molecular Formula	:	$C_{13}H_{13}N_3O_3$
Molecular Weight	:	259.27
Target	:	E3 Ligase Ligand
Solubility	:	10 mM in DMSO



Biological Activity

Lenalidomide (CC-5013), a derivative of Thalidomide, acts as molecular glue for **PROTAC** design, Lenalidomide is a ligand of **ubiquitin E3 ligase cereblon (CRBN)**, and causes selective ubiquitination and degradation of IKZF1 and IKZF3, by the CRBN-CRL4 ubiquitin ligase.
Lenalidomide (CC-5013) specifically inhibits growth of mature B-cell lymphomas, including multiple myeloma, and induces IL-2 release from T cells.
Lenalidomide (CC-5013) inhibits production of pro inflammatory cytokines TNF-α, IL-1, IL-6, IL-12 and elevates the production of anti-inflammatory cytokine IL-10 from human PBMCs.
Lenalidomide (CC-5013) downregulates the production of IL-6 directly and also by inhibiting multiple myeloma (MM) cells and bone marrow stromal cells (BMSC) interaction.
Orally administered lenalidomide (250 mg/kg per day) reduces vascularization and total microvascular length in a rat mesenteric window assay.

References

Krönke J, et al. ***Oncoimmunology***. 2014 Jul 3;3(7):e941742.

Kotla V, et al. ***J Hematol Oncol.*** 2009 Aug 12;2:36.

Lopez-Girona A, et al. ***Leukemia.*** 2012 Nov;26(11):2326-35.

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