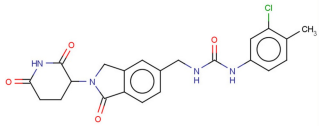
Data Sheet (Cat.No.T14893)

TargetMol
A DRUG SCREENING EXPERT

CC-885

Chemical Properties



CAS No.:	1010100-07-8
Formula:	C22H21ClN4O4
Molecular Weight:	440.88
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CC-885 is a modulator of cereblon (CRBN). It has potent anti-tumour activity.
Targets(IC_{50})	CRBN: None
In vitro	The effect of CC-885 on cell proliferation in AML cell lines, THLE-2 and human PBMC is more powerful than Lenalidomide and Pomalidomide with IC50s>10 μM. CC-885 is tested in 293T HEK cells stably expressing the CC-885-sensitive or -resistant GSPT1 variants. Acute myeloblatlic leukemia (AML) cell lines, human liver epithelial cell line (THLE-2) and human peripheral blood mononuclear cells (PBMC) are treated with varying concentrations of CC-885, with IC50s of 10×-6-1 μM. To address whether the cereblon-dependent degradation of GSPT1 is responsible for the cytotoxic effects of CC-885, a GSPT1 mutant that retains its normal function, but loses CC-885-dependent cereblon binding, is used to distinguish the role of GSPT1 from that of other substrates. Overexpression of a resistant variant GSPT1Δ(1–138)/(G575N) completely abrogate the CC-885-induced anti-proliferation. Whereas overexpression of a CC-885-sensitive variant GSPT1Δ(1-138) only confer partial protection. Similar results are obtained in AML cell lines[1].

Solubility Information

Solubility	DMSO: 67.5 mg/mL (153.10 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.268 mL	11.341 mL	22.682 mL
5 mM	0.454 mL	2.268 mL	4.536 mL
10 mM	0.227 mL	1.134 mL	2.268 mL
50 mM	0.045 mL	0.227 mL	0.454 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Mary E. Matyskiela, et al. A novel cereblon modulator recruits GSPT1 to the CRL4CRBN ubiquitin ligase. Nature. 2016 Jul 14;535(7611):252-7.

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