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产品名称: **Iberdomide**
产品别名: **CC-220**

生物活性:					
Description	Iberdomide (CC-220) is a cereblon (CRBN) modulator with an IC50 of 60 nM.				
In Vitro	Iberdomide contains a glutarimide ring that binds in the try-tryptophan pocket of cereblon and an isoindolinone ring that can interact with both cereblon and substrates. Treatment with Iberdomide results in the loss of Ikaros and Aiolos protein levels with EC50s of 1 nM and 0.5 nM [1].				
In Vivo	Iberdomide (CC-220) is currently in phase 2 clinical trials for the treatment of systematic lupus erythematosus (SLE) and phase 1b/2a clinical trials for relapsed and refractory multiple myeloma (MM)[1].				
Solvent&Solubility	In Vitro: DMSO : ≥ 30 mg/mL (66.74 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.2247 mL	11.1235 mL	22.2469 mL
		5 mM	0.4449 mL	2.2247 mL	4.4494 mL
		10 mM	0.2225 mL	1.1123 mL	2.2247 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。				
References	[1]. Matyskiela ME, et al. A Cereblon Modulator (CC-220) with Improved Degradation of Ikaros and Aiolos. J Med Chem. 2017 Apr 20.				
实验参考:					
Kinase Assay	Iberdomide is dissolved in DMSO. In the assay, 60 nM 6Xhis-tagged CRBN-DDB1 is combined with 30 nM cy5-conjugated cereblon modulator and 3 nM LanthaScreen Eu-anti-His Tag antibody in 20 mM HEPES pH 7, 150 mM NaCl, 0.005% Tween-20 assay buffer. FRET is observed by exciting at 340 nm and monitoring emission at 615 nm and 665 nm, and FRET efficiency is determined by the ratio of FRET to non-FRET emission. Competing cereblon modulating compound (Iberdomide) or DMSO carrier is titrated and incubated for 10 min before scanning ^[1] .				
References	[1]. Matyskiela ME, et al. A Cereblon Modulator (CC-220) with Improved Degradation of Ikaros and Aiolos. J Med Chem. 2017 Apr 20.				