

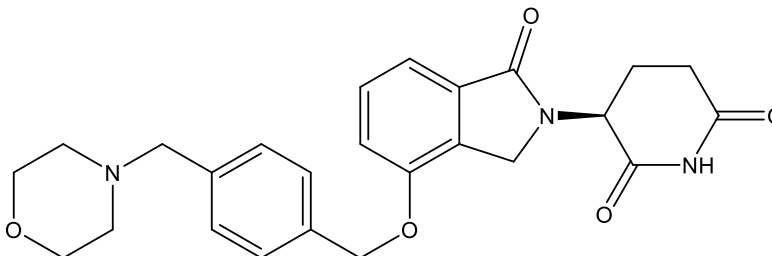
**Catalog # 10-3921**

**Iberdomide**

CAS# 1323403-33-3

(S)-3-(4-((4-(Morpholinomethyl)benzyl)oxy)-1-oxoisindolin-2-yl)piperidine-2,6-dione; CC-220

Lot # FBS3089



Iberdomide is a modulator of the cullin ring ligase 4-cereblon E3 ubiquitin ligase complex with higher affinity ( $IC_{50} = 60$  nM) than lenalidomide and pomalidomide leading to more potent degradation of Ikaros (IKZF1;  $EC_{50} = 1$  nM) and Aiolos (IKZF3;  $EC_{50} = 0.5$  nM).<sup>1</sup> It is more specific for the cereblon complex and does not degrade GSPT1 or CK1 $\alpha$ . It displays antitumor and immunostimulatory activity in lenalidomide- and pomalidomide-resistant multiple myeloma cells.<sup>2</sup> Iberdomide has also shown efficacy in treating the autoimmune disease cutaneous lupus erythematosus (CLE).<sup>3</sup> It was also shown to act as an HIV-1 latency reversal agent in CD4+ T-cells.<sup>4</sup>

- 1) Matyskiela *et al.* (2018), *A Cereblon Modulator (CC-220) with Improved Degradation of Ikaros and Aiolos*; *J. Med. Chem.*, **61** 535
- 2) Bjorkland *et al.* (2020), *Iberdomide (CC-220) is a potent cereblon E3 ligase modulator with antitumor and immunostimulatory activities in lenalidomide- and pomalidomide-resistant multiple myeloma cells with dysregulated CRBN*; *Leukemia*, **34** 1197
- 3) Sprow *et al.* (2022), *Emerging Therapies in Cutaneous Lupus Erythematosus*; *Front. Med. (Lausanne)*, **9** 968323
- 4) Ne *et al.* (2022), *Catchet-MS identifies IKZF1-targeting thalidomide analogues as novel HIV-1 latency reversal agents*; *Nucleic Acids Res.*, **50** 5577

**PHYSICAL DATA**

Molecular Weight:	449.51
Molecular Formula:	C <sub>25</sub> H <sub>27</sub> N <sub>3</sub> O <sub>5</sub>
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (50 mg/ml)
Physical Description:	White solid.
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase.
	Solutions in DMSO may be stored at -20°C for up to 3 months.

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