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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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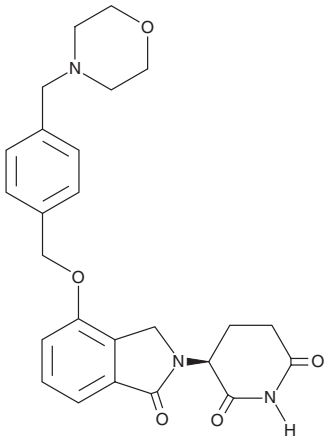
PRODUCT INFORMATION

Iberdomide

Item No. 22615



CAS Registry No.:	1323403-33-3
Formal Name:	3S-[1,3-dihydro-4-[[4-(4-morpholinylmethyl) phenyl]methoxy]-1-oxo-2H-isoindol-2-yl]-2,6-piperidinedione
Synonym:	CC-220
MF:	$C_{25}H_{27}N_3O_5$
FW:	449.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 284 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Iberdomide is supplied as a crystalline solid. A stock solution may be made by dissolving the iberdomide in the solvent of choice. Iberdomide is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of iberdomide in these solvents is approximately 12 mg/ml.

Iberdomide is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, iberdomide should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Iberdomide has a solubility of approximately 0.11 mg/ml in a 1:8 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Iberdomide is a modulator of cereblon, a substrate receptor in the CRL4 ubiquitin ligase complex, that has an IC_{50} value of 60 nM in a competitive TR-FRET assay.[1] In the same assay, it has a higher affinity for cereblon than the related modulators lenalidomide (Item No. 14643; IC_{50} = 1,500 nM) and pomalidomide (Item No. 19877; IC_{50} = 1,200 nM). Iberdomide also has a greater potency for degrading the CRL4 complex substrates Ikaros and Aiolos (EC_{50}s = 1 and 0.5 nM) but has no degradative activity for GSPT1 or CK1α.

Reference

1. Matyskiela, M.E., Zhang, W., Man, H.W., *et al.* A cereblon modulator (CC-220) with improved degradation of Ikaros and Aiolos. *J. Med. Chem.* (2017).

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