



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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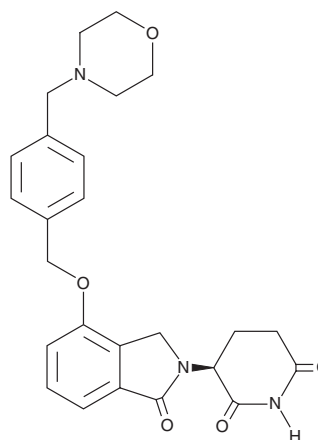
# PRODUCT INFORMATION



## 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<sub>25</sub>H<sub>27</sub>N<sub>3</sub>O<sub>5</sub>  
**FW:** 449.5  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 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<sub>50</sub> value of 60 nM in a competitive TR-FRET assay.<sup>1</sup> In the same assay, it has a higher affinity for cereblon than the related modulators lenalidomide (Item No. 14643; IC<sub>50</sub> = 1,500 nM) and pomalidomide (Item No. 19877; IC<sub>50</sub> = 1,200 nM). Iberdomide also has a greater potency for degrading the CRL4 complex substrates Ikaros and Aiolos (EC<sub>50</sub>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).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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