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TOCRIS

Print Date: Mar 14th 2024

Certificate of Analysis

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Product Name: **CRBN-6-5-5-VHL** **Catalog No.: 6948** **Batch No.: 2**

CAS Number: 2362575-45-7

IUPAC Name: (2*S*,4*R*)-1-((2*S*)-2-(5-((5-((6-((2-(2,6-Dioxopiperidin-3-yl)-1,3-dioxoisoindolin-4-yl)amino)hexyl)oxy)pentyl)oxy) pentanamido)-3,3-dimethylbutanoyl)-4-hydroxy-*N*-(4-(4-methylthiazol-5-yl)benzyl)pyrrolidine-2-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{51}H_{69}N_7O_{10}S.H_2O$

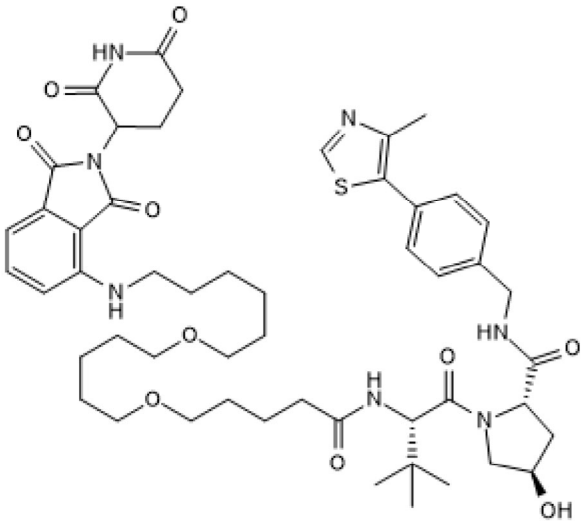
Batch Molecular Weight: 990.23

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.86	7.23	9.9
Found	61.42	7.17	10

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

CRBN-6-5-5-VHL is a potent and selective cereblon Degrader (PROTAC®) (DC_{50} = 1.5 nM). Induces complete degradation of cereblon in MM1S cells. Comprises a cereblon E3 ligase ligand joined by a linker to a ligand for the E3 ligase VHL. Cell-permeable. CRBN antibody validated for Simple Western™ (automated Western) instruments and Western Blot also available: Catalog # NBP1-91810. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

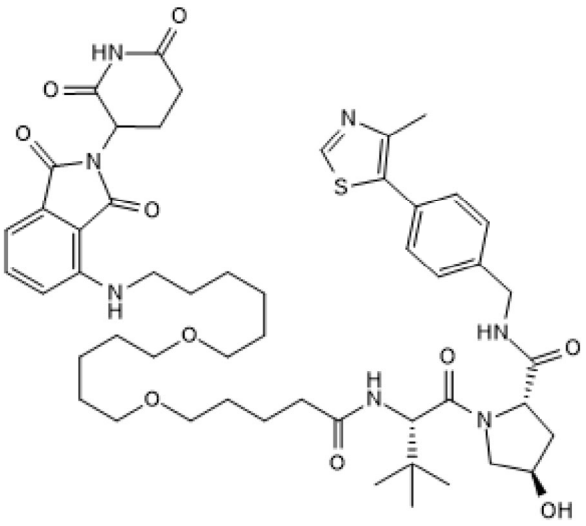
Batch Molecular Formula: $C_{51}H_{69}N_7O_{10}S.H_2O$

Batch Molecular Weight: 990.23

Physical Appearance: Yellow solid

Minimum Purity: ≥96%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Steinebach *et al* (2019) PROTAC-mediated crosstalk between E3 ligases. Chem.Commun.(Camb) ***55*** 1821. PMID: 30672516.