

**Product Name:** CRBN PROTAC 14a

**Catalog No.:** 7219

**Batch No.:** 1

CAS Number: 2358775-70-7

IUPAC Name: *N*<sup>1</sup>-(2-((2-(2,6-Dioxopiperidin-3-yl)-1,3-dioxoisindolin-4-yl)amino)ethyl)-*N*<sup>20</sup>-((*S*)-1-((2*S*,4*R*)-4-hydroxy-2-((4-(4-methylthiazol-5-yl)benzyl)carbamoyl)pyrrolidin-1-yl)-3,3-dimethyl-1-oxobutan-2-yl)-3,9,12,18-tetraoxaicosanediamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>53</sub>H<sub>72</sub>N<sub>8</sub>O<sub>13</sub>S<sub>3</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

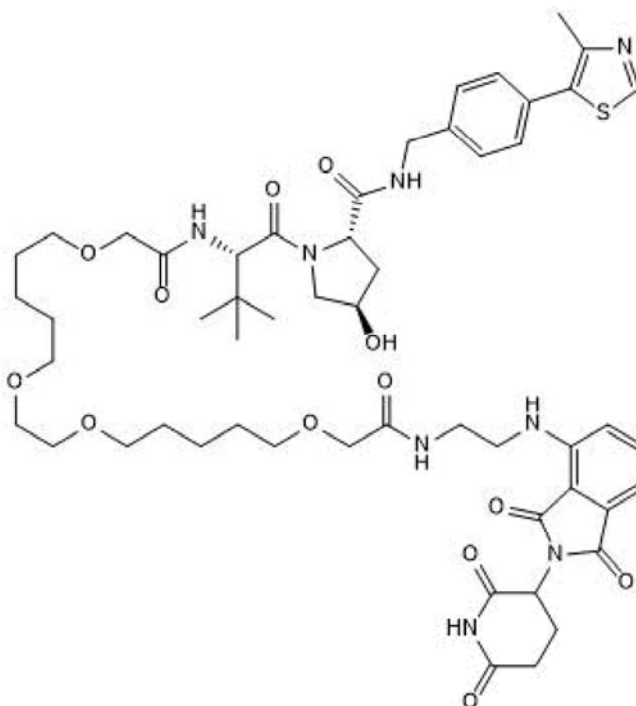
**Batch Molecular Weight:** 1074.77

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.8% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 59.23  | 6.89     | 10.43    |
| Found       | 58.92  | 6.82     | 10.38    |

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

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**Description:**

CRBN PROTAC® 14a is a cereblon Degrader (PROTAC®). Comprises a ligand for Von Hippel Lindau (VHL) protein joined by a linker to a cereblon targeting ligand. Preferentially degrades cereblon (DC<sub>50</sub> = 200 nM in HEK293 cells). Induces rapid and profound cereblon degradation (98% decrease after 8 h at 1 μM in HEK293 cells). PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

**Physical and Chemical Properties:**

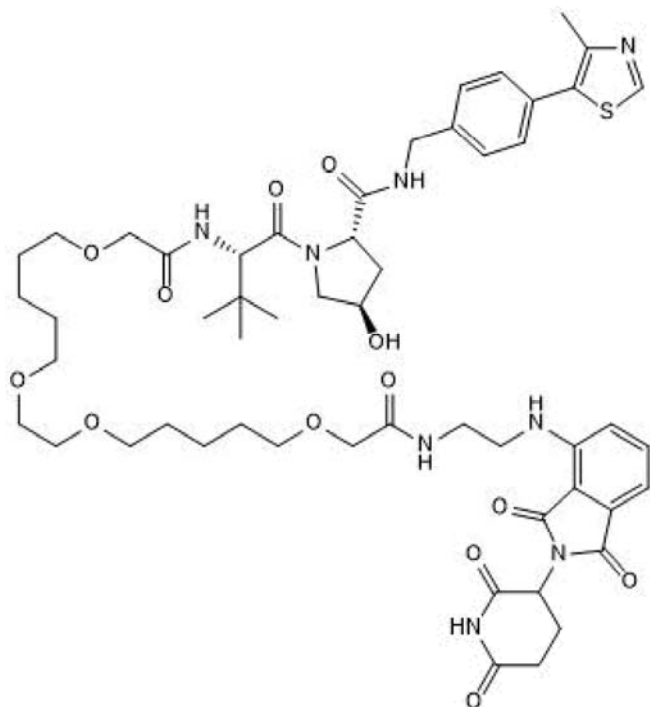
Batch Molecular Formula: C<sub>53</sub>H<sub>72</sub>N<sub>8</sub>O<sub>13</sub>S<sub>3</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 1074.77

Physical Appearance: Yellow solid

**Minimum Purity:** ≥98%

**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. Our standard recommendations are:

**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.

**Licensing Information:**

Sold under licence from the University of Dundee

**References:**

**Girardini et al** (2019) Cereblon versus VHL: Hijacking E3 ligases against each other using PROTACs. *Bioorg.Med.Chem.* **27** 2466. PMID: 30826187.

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