

**Product Name:** Thalidomide 4'-oxyacetamide-alkylC4-amine

**Catalog No.:** 6469

**Batch No.:** 2

CAS Number: 2245697-86-1

IUPAC Name: *N*-(4-Aminobutyl)-2-[[2-(2,6-dioxo-3-piperidinyl)-2,3-dihydro-1,3-dioxo-1*H*-isoindol-4-yl]oxy]acetamide hydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

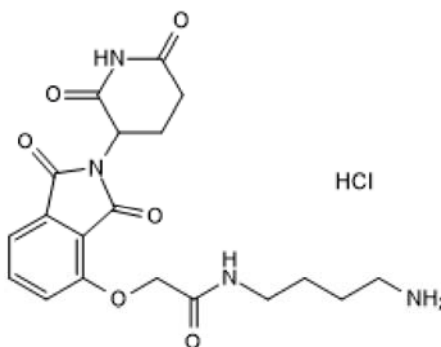
**Batch Molecular Formula:** C<sub>19</sub>H<sub>22</sub>N<sub>4</sub>O<sub>6</sub>.HCl.1¼H<sub>2</sub>O

**Batch Molecular Weight:** 461.38

**Physical Appearance:** White solid

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.7% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	49.46	5.57	12.14
Found	49.13	5.45	12.03

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**Description:**

Thalidomide 4'-oxyacetamide-alkylC4-amine is a functionalized cereblon ligand for PROTAC<sup>®</sup> research and development; incorporates an E3 ligase ligand plus a short alkyl linker ready for conjugation to a target protein ligand. Part of a range of functionalized tool molecules for PROTAC R&D. This product has been recently renamed. The previous name for this product was Thalidomide - linker 3 PROTAC<sup>®</sup> is a registered trademark of Arvinas Operations, Inc., and is used under license.

**Physical and Chemical Properties:**

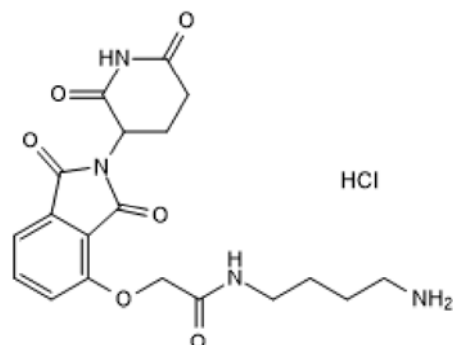
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Batch Molecular Weight: 461.38

Physical Appearance: White solid

**Minimum Purity:** ≥95%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

This compound is hygroscopic and may absorb atmospheric moisture during prolonged storage, causing the solid to become sticky and/or collapse into a gel or glass-like form. Although purity is unaffected, it may be difficult to extract the full quantity from the vial. In such a situation, we recommend that solutions are made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**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.

**References:**

**Salami et al** (2017) Waste disposal-An attractive strategy for cancer therapy. *Science* **355** 1163. PMID: 28302825.

**Winter et al** (2015) Drug development. Phthalimide conjugation as a strategy for *in vivo* target protein degradation. *Science* **348** 1376. PMID: 25999370.

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