

**Product Name:** Thalidomide-4-hydroxyacetate

**Catalog No.:** 6466

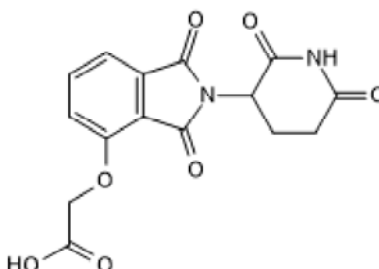
**Batch No.:** 1

CAS Number: 1061605-21-7

IUPAC Name: 2-[[2-(2,6-Dioxo-3-piperidiny)-2,3-dihydro-1,3-dioxo-1*H*-isoindol-4-yl]oxy]acetic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>12</sub>N<sub>2</sub>O<sub>7</sub>  
**Batch Molecular Weight:** 332.26  
**Physical Appearance:** Off White solid  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.22	3.64	8.43
Found	54.32	3.58	8.27

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

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**Description:**

Thalidomide-4-hydroxyacetate is a derivative of Thalidomide (Cat.No. 0652), commonly used as a precursor to PROTAC® that hijacks cereblon as the E3 ubiquitin ligase component. Supplied with a carboxylic acid functional handle at a position known not to significantly affect binding to cereblon, for ready conjugation to a linker/target protein ligand. Thalidomide-4-hydroxyacetate has been recently renamed. The previous name for this product was TC E3 5031. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license. Require a different derivative? Get in touch. Please see product specific page on [www.tocris.com](http://www.tocris.com) for full description.

**Physical and Chemical Properties:**

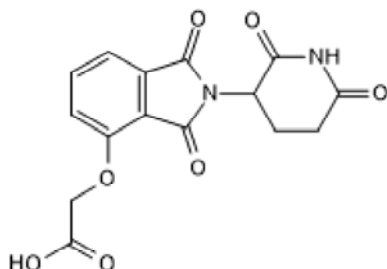
Batch Molecular Formula: C<sub>15</sub>H<sub>12</sub>N<sub>2</sub>O<sub>7</sub>

Batch Molecular Weight: 332.26

Physical Appearance: Off White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Lohbeck and Miller** (2016) Practical synthesis of a phthalimide-based cereblon ligand to enable PROTAC development. *Bioorg.Med.Chem.Lett.* **26** 5260. PMID: 27687673.

**Storage:** Store at RT

**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.

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