

Certificate of Analysis

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Product Name: Thalidomide-4-hydroxyacetate

Catalog No.: 6466

Batch No.: 2

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

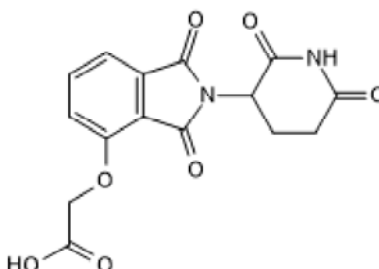
Batch Molecular Formula: C₁₅H₁₂N₂O₇

Batch Molecular Weight: 332.26

Physical Appearance: White solid

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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. Please contact us for SD files of our available Degradator Building Blocks. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license. Require... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

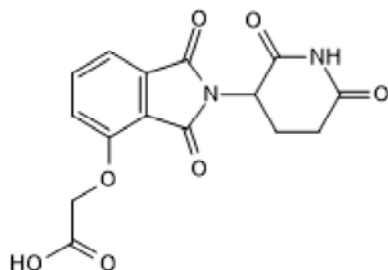
Batch Molecular Formula: C₁₅H₁₂N₂O₇

Batch Molecular Weight: 332.26

Physical Appearance: 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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