

## Certificate of Analysis

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**Product Name:** 5-Amino-Thalidomide

**Catalog No.:** 7678

**Batch No.:** 1

CAS Number: 191732-76-0

IUPAC Name: 5-Amino-2-(2,6-dioxo-3-piperidinyl)-1*H*-isoindole-1,3(2*H*)-dione

### 1. PHYSICAL AND CHEMICAL PROPERTIES

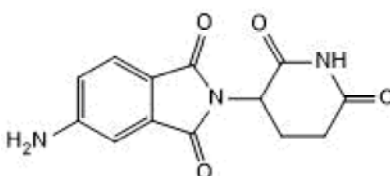
**Batch Molecular Formula:** C<sub>13</sub>H<sub>11</sub>N<sub>3</sub>O<sub>4</sub>·¼H<sub>2</sub>O

**Batch Molecular Weight:** 277.74

**Physical Appearance:** Green solid

**Storage:** Store at -20°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.8% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.22	4.17	15.13
Found	55.83	3.87	14.97

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

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**Description:**

5-Amino-Thalidomide is a functionalized cereblon (CRBN) ligand for PROTAC® research and development; incorporates an E3 ligase ligand with an amine on the C5 position of the phthalimide ring for onward chemistry to generate Protein Degraders with rigid linkers. Degraders with modifications on the C5 position reduce off-target zinc-finger proteins degradation. Part of a range of functionalized tool molecules for PROTAC® Degradere R&D. Please contact us for SD files of our available Degradere Building Blocks. 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:**

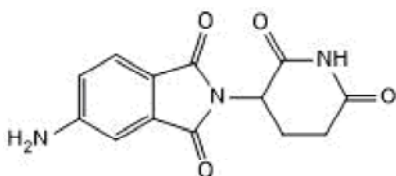
Batch Molecular Formula: C<sub>13</sub>H<sub>11</sub>N<sub>3</sub>O<sub>4</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 277.74

Physical Appearance: Green solid

**Minimum Purity:** ≥95%

**Batch Molecular Structure:**



**References:**

Nguyen *et al* (2021) Proteolysis Targeting Chimeras With Reduced Off-targets. bioRxiv.

**Storage:** Store at -20°C

**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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