

**Product Name:** Thalidomide 4'-ether-PEG2-alkyne

**Catalog No.:** 6686

**Batch No.:** 1

CAS Number: 2098487-52-4

IUPAC Name: 2-(2,6-Dioxo-3-piperidiny)-4-[2-[2-(2-propyn-1-yloxy)oxy]ethoxy]-1*H*-isoindole-1,3(2*H*)dione

## 1. PHYSICAL AND CHEMICAL PROPERTIES

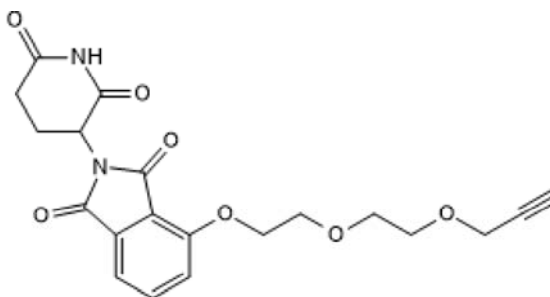
**Batch Molecular Formula:** C<sub>20</sub>H<sub>20</sub>N<sub>2</sub>O<sub>7</sub>·<sup>1</sup>/<sub>4</sub>H<sub>2</sub>O

**Batch Molecular Weight:** 404.88

**Physical Appearance:** White solid

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.3 (Dichloromethane:Methanol [95:5])

**HPLC:** Shows 97.6% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 59.33  | 5.1      | 6.92     |
| Found       | 59.54  | 5.02     | 6.94     |

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

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**Description:**

Functionalized cereblon ligand for PROTAC® research and development; incorporates an E3 ligase ligand plus a PEG2 linker with alkyne terminal ready for conjugation to a target protein ligand. Part of a range of functionalized tool molecules for PROTACs R&D. This product has been recently renamed. The previous name for this product was Thalidomide - linker 5 PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

**Physical and Chemical Properties:**

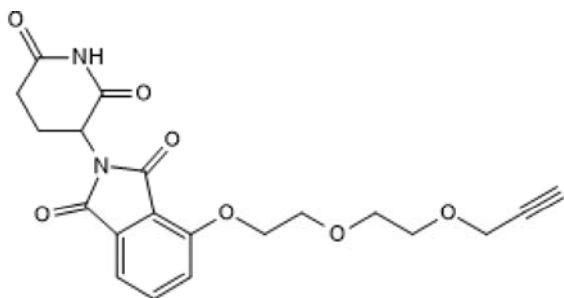
Batch Molecular Formula: C<sub>20</sub>H<sub>20</sub>N<sub>2</sub>O<sub>7</sub>·¼H<sub>2</sub>O

Batch Molecular Weight: 404.88

Physical Appearance: White solid

**Minimum Purity:** ≥95%

**Batch Molecular Structure:**



**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.

**References:**

**Remillard *et al*** (2017) Degradation of the BAF complex factor BRD9 by heterobifunctional ligands. *Angew.Chem.Int.Ed.Engl.* **56** 5738. PMID: 28418626.

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