TOCRIS
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Print Date: Sep 28th 2021

Certificate of Analysis

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Product Name: **Thalidomide 4'-oxyacetamide-PEG3-amine** **Catalog No.: 6467** **Batch No.: 2**

CAS Number: 2245697-84-9

IUPAC Name: *N*-[2-[2-[2-(2-Aminoethoxy)ethoxy]ethoxy]ethyl]-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

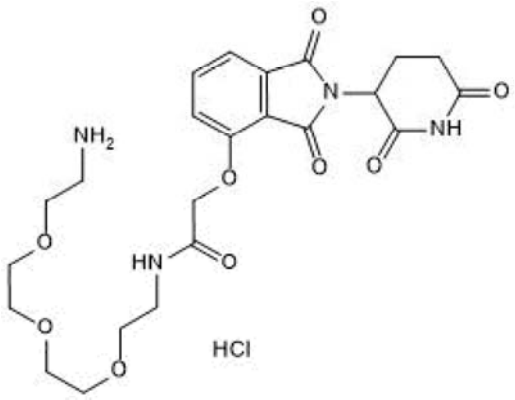
Batch Molecular Formula: $C_{23}H_{30}N_4O_9.HCl.H_2O$

Batch Molecular Weight: 560.99

Physical Appearance: White solid

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

^{1}H NMR: consistent with structure

Mass Spectrum: consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	49.24	5.93	9.99
Found	48.9	5.86	9.97

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

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Description:

Thalidomide 4'-oxyacetamide-PEG3-amine is a functionalized cereblon ligand for PROTACsup>® research and development; incorporates an E3 ligase ligand plus a PEG 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 1 PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.

Physical and Chemical Properties:

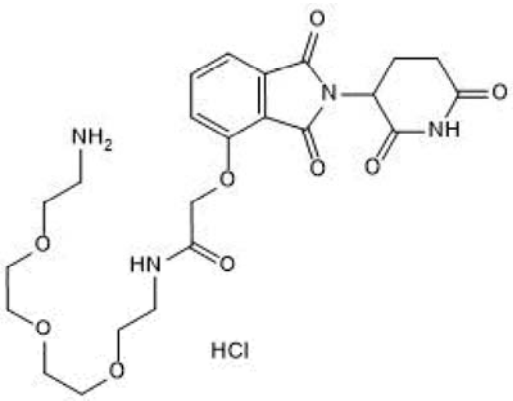
Batch Molecular Formula: $C_{23}H_{30}N_4O_9.HCl.H_2O$

Batch Molecular Weight: 560.99

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

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) Functionalized Cereblon ligand for PROTACs; incorporates an E3 ligase ligand and a linker used in PROTAC technology. Science ***348*** 1376. PMID: 25999370.