

Product Name: Pomalidomide

Catalog No.: 6302

Batch No.: 1

CAS Number: 19171-19-8

IUPAC Name: 4-Amino-2-(2,6-dioxo-3-piperidiny)-1*H*-isoindole-1,3(2*H*)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₁N₃O₄·½H₂O

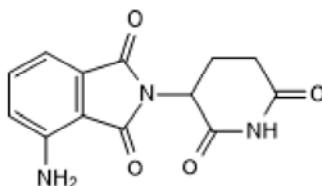
Batch Molecular Weight: 282.25

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.32	4.29	14.89
Found	55.52	4.05	14.61

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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:

Potent TNF- α inhibitor (IC₅₀ = 13 nM). Also potently inhibits IL-2 (EC₅₀ = 8 nM). Thalidomide derivative. Binds cereblon and inhibits its ubiquitination. Exhibits antiproliferative effects in a Namalwa lymphoma cell line. Antiangiogenic. Promotes degradation of transcription factor SALL4.

Physical and Chemical Properties:

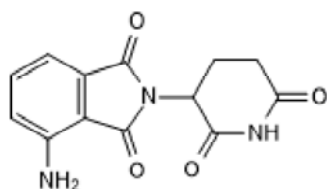
Batch Molecular Formula: C₁₃H₁₁N₃O₄·½H₂O

Batch Molecular Weight: 282.25

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

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:

Donovan et al (2018) Thalidomide promotes degradation of SALL4, a transcription factor implicated in Duane Radial Ray Syndrome. *Elife* **7** e38430. PMID: 30067223.

Lai et al (2016) Modular PROTAC design for the degradation of oncogenic BCR-ABL. *Angew.Chem.Int.Ed.Engl.* **55** 807. PMID: 26593377.

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

Nanthakumar et al (2015) Dissecting fibrosis: therapeutic insights from the small-molecule toolbox. *Nat.Rev.Drug.Discov.* **14** 693. PMID: 26338155.

Winter et al (2015) Phthalimide conjugation as a strategy for *in vivo* target protein degradation. *Science.* **348** 1376. PMID: 25999370 .

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