

Certificate of Analysis

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Product Name: Thalidomide, 5'-fluoro

Catalog No.: 7456

Batch No.: 1

CAS Number: 835616-61-0

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

1. PHYSICAL AND CHEMICAL PROPERTIES

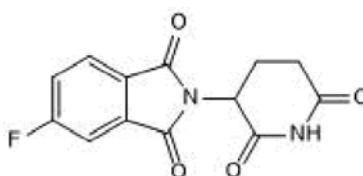
Batch Molecular Formula: C₁₃H₉FN₂O₄

Batch Molecular Weight: 276.22

Physical Appearance: Pale pink solid

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	56.53	3.28	10.14
Found	56.46	3.13	10

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

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Description:

Thalidomide 5'- fluoro is a derivative of Thalidomide (Cat. No. 0652), commonly used as a precursor to PROTAC® Degraders that hijacks cereblon as the E3 ubiquitin ligase component. Supplied with a fluoro functional handle at a position known not to significantly affect binding to cereblon, ready for conjugation to a linker/target protein ligand. Please contact us for SD files of our available Degradation Building Blocks. PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license. Require a different derivative? Get in touch. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

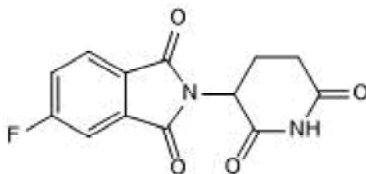
Batch Molecular Formula: C₁₃H₉FN₂O₄

Batch Molecular Weight: 276.22

Physical Appearance: Pale pink solid

Minimum Purity: ≥95%

Batch Molecular Structure:



References:

Burslem *et al* (2018) Efficient synthesis of immunomodulatory drug analogues enables exploration of structure-degradation relationships. *ChemMedChem* **13** 1508. PMID: 29870139.

Storage: Store at +4°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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