

Product Name: EM12-SO₂F

Catalog No.: 7852

Batch No.: 1

CAS Number: 2803819-61-4

IUPAC Name: 2-(2,6-Dioxo-3-piperidinyl)-2,3-dihydro-3-oxo-1*H*-isoindole-5-sulfonyl fluoride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₁FN₂O₅S.¼H₂O

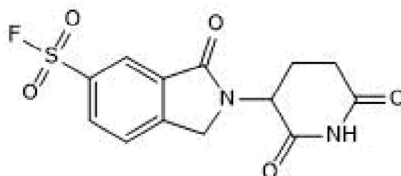
Batch Molecular Weight: 330.8

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.2	3.5	8.47
Found	46.77	3.3	8.29

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

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CAS Number: 2803819-61-4

IUPAC Name: 2-(2,6-Dioxo-3-piperidinyl)-2,3-dihydro-3-oxo-1*H*-isoindole-5-sulfonyl fluoride

Description:

EM12-SO₂F is a potent covalent Cereblon (CRBN) inhibitor (IC₅₀ = 0.88 nM) it covalently binds to a histidine residue (His353) in the IMiD binding pocket of CRBN and blocks the recruitment of its substrates. It prevents Lenalidomide (Cat. No. 6305) induced degradation of the zinc finger transcription factor IKZF1 in MOLT4 cells. It complements CRBN based PROTAC and genetic methods to validate CRBN-mediated degradation.

Physical and Chemical Properties:

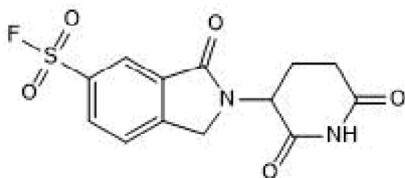
Batch Molecular Formula: C₁₃H₁₁FN₂O₅S.¼H₂O

Batch Molecular Weight: 330.8

Physical Appearance: White solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Cruite et al (2022) Cereblon covalent modulation through structure-based design of histidine targeting chemical probes. *RSC Chem.Biol.* **3** 1105. PMID: 36128501.

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