

Product Name: ±-MF 094

Catalog No.: 6718

Batch No.: 1

CAS Number: 2758431-95-5

IUPAC Name: *N*-(1-((5-(*N*-(*tert*-Butyl)sulfamoyl)naphthalen-1-yl)amino)-1-oxo-3-phenylpropan-2-yl)cyclohexanecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₃₇N₃O₄S·¾H₂O

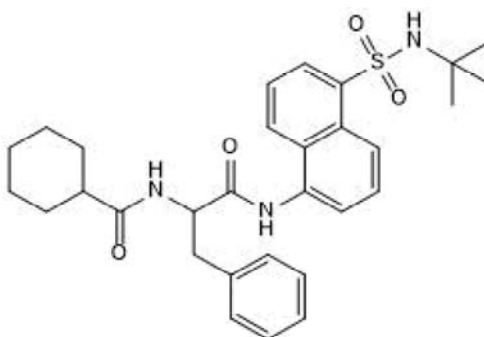
Batch Molecular Weight: 549.21

Physical Appearance: Beige solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	65.61	7.07	7.65
Found	65.61	6.78	7.7

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

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Description:

±-MF 904 is the racemate of MF 904, the S-enantiomer. The S-enantiomer is a selective USP30 (ubiquitin-specific-processing protease 30) inhibitor (IC₅₀ = 120 nM). MF 094 increases protein ubiquitination and accelerates mitophagy.

Physical and Chemical Properties:

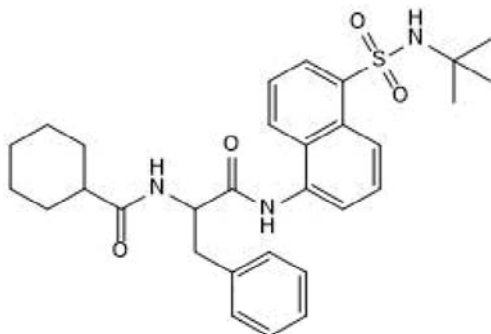
Batch Molecular Formula: C₃₀H₃₇N₃O₄S.¼H₂O

Batch Molecular Weight: 549.21

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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:

Li and Liu *et al* (2020) Recent advances in the development of ubiquitin-specific-processing protease 7 (USP7) inhibitors. *Eur.J.Med.Chem.* **191** 112107. PMID: 32092586.

Kluge *et al* (2018) Novel highly selective inhibitors of ubiquitin specific protease 30 (USP30) accelerate mitophagy. *Bioorg.Med.Chem.Lett.* **28** 2655. PMID: 29935771.

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