

Certificate of Analysis

Product Name: JZP 430

Catalog No.: 5844

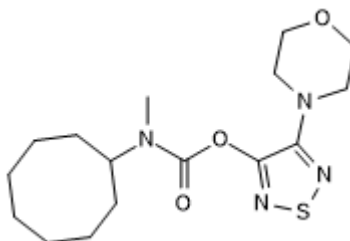
Batch No.: 1

CAS Number: 1672691-74-5

IUPAC Name: 4-(4-Morpholinyl)-1,2,5-thiadiazol-3-yl *N*-cyclooctyl-*N*-methylcarbamate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₆N₄O₃S
Batch Molecular Weight: 354.47
Physical Appearance: Beige solid
Solubility: DMSO to 50 mM
 ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.37 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	54.22	7.39	15.81
Found	54.57	7.61	15.76

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

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Description:

Potent and irreversible α/β -hydrolase domain 6 (ABHD6) inhibitor ($IC_{50} = 44$ nM). Exhibits ~230-fold selectivity over fatty acid amide hydrolase (FAAH) and lysosomal acid lipase (LAL).

Physical and Chemical Properties:

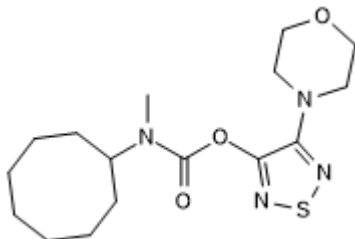
Batch Molecular Formula: $C_{16}H_{26}N_4O_3S$

Batch Molecular Weight: 354.47

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 20 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:

Patel *et al* (2015) Optimization of 1,2,5-thiadiazole carbamates as potent and selective ABHD6 inhibitors. *Chem.Med.Chem.* **10** 253. PMID: 25504894.

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