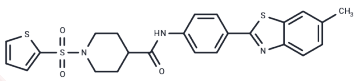
Data Sheet (Cat.No.T11256)

TargetMol

FAAH inhibitor 1

Chemical Properties



CAS No. : 326866-17-5

Formula: C24H23N3O3S3

Molecular Weight: 497.65

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	FAAH inhibitor 1 (Benzothiazole analog 3) is a potent FAAH inhibitor with an IC50 of 18 nM.
Targets(IC50)	FAAH,Autophagy

Solubility Information

Solubility	DMSO: 9.62 mg/mL (19.33 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0094 mL	10.0472 mL	20.0944 mL
5 mM	0.4019 mL	2.0094 mL	4.0189 mL
10 mM	0.2009 mL	1.0047 mL	2.0094 mL
50 mM	0.0402 mL	0.2009 mL	0.4019 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Wang Xueqing, et al. Synthesis and Evaluation of Benzothiazole-Based Analogues as Novel, Potent, and Selective Fatty Acid Amide Hydrolase Inhibitors. Journal of Medicinal Chemistry (2009), 52(1), 170-180.
Meyers, Marvin J., et al. Discovery of novel spirocyclic inhibitors of fatty acid amide hydrolase (FAAH). Part 1: Identification of 7-azaspiro[3.5]nonane and 1-oxa-8-azaspiro[4.5]decane as lead scaffolds. Bioorganic & Medicinal Chemistry Letters (2011), 21(21), 6538-6544.

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