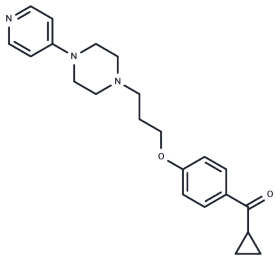
Data Sheet (Cat.No.T77593)

KSK67

Chemical Properties



CAS No. : 2566715-93-1

Formula: C22H27N3O2

Molecular Weight: 365.47

Storage: Store at low temperature
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	KSK67 is a selective dual antagonist of sigma-2 and histamine H3 receptors with inhibitory effects on H3 receptors, sigma-1, and sigma-2 receptors, with Ki values of 3.2, 1531, and 101 nM, respectively.KSK67 can be used to study injury pain and neuropathic pain.
Targets(IC50)	Histamine Receptor,Sigma receptor

Solubility Information

Solubility	DMSO: 4.62 mg/mL (12.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7362 mL	13.681 mL	27.362 mL
5 mM	0.5472 mL	2.7362 mL	5.4724 mL
10 mM	0.2736 mL	1.3681 mL	2.7362 mL
50 mM	0.0547 mL	0.2736 mL	0.5472 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

Szczepańska K, et al. Dual Piperidine-Based Histamine H3 and Sigma-1 Receptor Ligands in the Treatment of Nociceptive and Neuropathic Pain. J Med Chem. 2023 Jul 27;66(14):9658-9683.

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