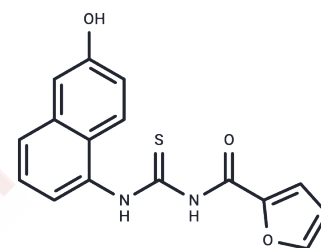


5J-4

Chemical Properties

CAS No. : 827001-82-1
 Formula: C₁₆H₁₂N₂O₃S
 Molecular Weight: 312.34
 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	5J-4 is a potent a blocker of calcium release-activated calcium (CRAC) channel and store-operated calcium entry (SOCE). 5J-4 reduces the production of IL-17 and decreases the expression of ROR α and ROR γ t.
Targets(IC50)	Calcium Channel
In vivo	5J-4 (2 mg/kg; i.p.; every alternate day for 30 days) dramatically reduced the symptoms and delayed the onset of EAE and decreased the numbers of the infiltrated mononuclear cell in the CNS, and significantly decreased the population of infiltrated CD4+ population. 5J-4 reduced the symptoms and delayed the onset of EAE (experimental autoimmune encephalomyelitis) in the mouse model of inflammation[1].

Solubility Information

Solubility DMSO: 50 mg/mL (160.08 mM),Sonication is recommended.
 (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2016 mL	16.0082 mL	32.0164 mL
5 mM	0.6403 mL	3.2016 mL	6.4033 mL
10 mM	0.3202 mL	1.6008 mL	3.2016 mL
50 mM	0.064 mL	0.3202 mL	0.6403 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

Lanotte A, Mazzino A. Anisotropic nonperturbative zero modes for passively advected magnetic fields. Phys Rev E Stat Phys Plasmas Fluids Relat Interdiscip Topics. 1999 Oct;60(4 Pt A):R3483-6. PubMed PMID: 11970263.

Kim KD, et al. Calcium signaling via Orai1 is essential for induction of the nuclear orphan receptor pathway to drive Th17 differentiation. J Immunol. 2014 Jan 1;192(1):110-22.

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