

FEMA-4809

Chemical Properties

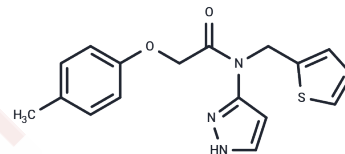
CAS No. : 1374760-95-8

Formula: C₁₇H₁₇N₃O₂S

Molecular Weight: 327.4

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	FEMA-4809, a highly potent TRPM8 receptor activator, TRPM8 is the ion channel responsible for the cool perception, which is triggered either by temperatures below 25 °C or by ligands such as (-)-menthol. FEMA-4809 is used as a cooling agent.
Targets(IC50)	TRP/TRPV Channel
In vitro	The cooling effect of a 3 μM aqueous solution of FEMA 4809 was still perceived out to at least 60 min[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (763.59 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0544 mL	15.2718 mL	30.5437 mL
5 mM	0.6109 mL	3.0544 mL	6.1087 mL
10 mM	0.3054 mL	1.5272 mL	3.0544 mL
50 mM	0.0611 mL	0.3054 mL	0.6109 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

Noncovich A, et al. Discovery and development of a novel class of phenoxyacetyl amides as highly potent TRPM8 agonists for use as cooling agents. Bioorg Med Chem Lett. 2017 Aug 15;27(16):3931-3938.

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