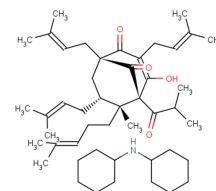


Hyperforin dicyclohexylammonium salt

Chemical Properties

CAS No.:	238074-03-8
Formula:	C ₄₇ H ₇₅ NO ₄
Molecular Weight:	718.1
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Hyperforin dicyclohexylammonium salt is a transient receptor canonical 6 channel activator with antidepressant effect. It modulates Ca ²⁺ levels by activating Ca ²⁺ -conducting non-selective canonical TRPC6 channels.
Targets(IC ₅₀)	Others: None
In vitro	Hyperforin dicyclohexylammonium salt shows a multi-directional mechanism of action. It also blocks the conductance of ligand-gated (GABA, NMDA, and AMPA receptors) and voltage-gated channels (Ca ²⁺ , K ⁺ , and Na ⁺) [2].

Solubility Information

Solubility	DMSO: 50 mg/mL (69.63 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.393 mL	6.963 mL	13.926 mL
5 mM	0.279 mL	1.393 mL	2.785 mL
10 mM	0.139 mL	0.696 mL	1.393 mL
50 mM	0.028 mL	0.139 mL	0.279 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Heiser JH, et al. TRPC6 channel-mediated neurite outgrowth in PC12 cells and hippocampal neurons involves activation of RAS/MEK/ERK, PI3K, and CAMKIV signaling. *J Neurochem.* 2013 Nov;127(3):303-13.
2. Pochwat B, et al. Hyperforin Potentiates Antidepressant-Like Activity of Lanicemine in Mice. *Front Mol Neurosci.* 2018 Dec 12;11:456.

Inhibitors · Natural Compounds · Compound Libraries

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