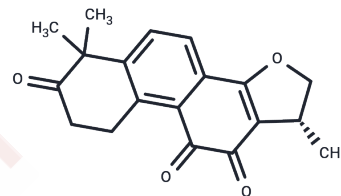


MAPK-IN-1

Chemical Properties

CAS No. :	2470587-69-8
Formula:	C ₁₉ H ₁₈ O ₄
Molecular Weight:	310.34
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	MAPK-IN-1 (Compound 2) is an inhibitor of the MAPK signaling pathway with anti-neuroinflammatory and neuroprotective activities, suitable for Alzheimer's disease research. It inhibits AChE with an IC ₅₀ of 23.84 μM [1].
Targets(IC ₅₀)	ERK,Others,Cholinesterase (ChE),JNK,p38 MAPK,TLR
In vitro	MAPK-IN-1 (Compound 2) effectively suppresses the release of pro-inflammatory mediators (NO, IL-1β, IL-6, and TNF-α) in BV-2 cells with IC ₅₀ values of 0.49 ± 0.17, 1.34 ± 0.21, 9.17 ± 0.17, and 8.17 ± 0.23 μM, respectively [1]. It also attenuates LPS-induced MAPK signaling pathway activation by inhibiting JNK, ERK, and p38 phosphorylation, and reduces expression of iNOS, COX-2, and TLR4 in LPS-stimulated BV-2 cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2223 mL	16.1114 mL	32.2227 mL
5 mM	0.6445 mL	3.2223 mL	6.4445 mL
10 mM	0.3222 mL	1.6111 mL	3.2223 mL
50 mM	0.0644 mL	0.3222 mL	0.6445 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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