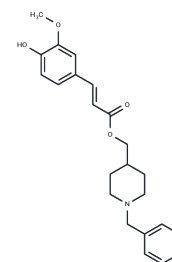


PQM130

Chemical Properties

CAS No. : 2089415-51-8
 Formula: C₂₃H₂₇N₂O₄
 Molecular Weight: 381.46
 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	PQM130 is a Feruloyl-Donepezil Hybrid compound against the neurotoxicity induced by A β 1-42 oligomer (A β O) and shows anti-inflammatory activity. PQM130 can be used in anti-AD studies.
Targets(IC50)	Beta Amyloid
In vitro	PQM130 had already shown anti-inflammatory activity in different in vivo models and neuroprotective activity in human neuronal cells.
In vivo	The intracerebroventricular (i.c.v.) injection of A β O in mice caused the increase of memory impairment, oxidative stress, neurodegeneration, and neuroinflammation.? Instead, PQM130 (0.5-1 mg/kg) treatment after the i.c.v. A β O injection reduced oxidative damage and neuroinflammation and induced cell survival and protein synthesis through the modulation of glycogen synthase kinase 3 β (GSK3 β) and extracellular signal-regulated kinases (ERK1/2).?Moreover, PQM130 increased brain plasticity and protected mice against the decline in spatial cognition.?PQM130 modulated different pathways compared to donepezil, and it is much more effective in counteracting A β O damage.

Solubility Information

Solubility	DMSO: 5.5 mg/mL (14.42 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	2.6215 mL	13.1075 mL	26.2151 mL
5 mM	0.5243 mL	2.6215 mL	5.243 mL
10 mM	0.2622 mL	1.3108 mL	2.6215 mL
50 mM	0.0524 mL	0.2622 mL	0.5243 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

Morrone F, et al. PQM130, a Novel Feruloyl-Donepezil Hybrid Compound, Effectively Ameliorates the Cognitive Impairments and Pathology in a Mouse Model of Alzheimer's Disease. *Front Pharmacol.* 2019 Jun 12;10:658.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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