
Product Data Sheet

Product Name: PQM130
Cat. No.: GC36954

Chemical Properties

Cas. No. 2089415-51-8

SMILES O=C(OCC1CCN(CC2=CC=CC=C2)CC1)/C=C/C3=CC=C(O)C(OC)=C3

Formula C23H27NO4 M.Wt 381.46

Solubility DMSO : 1.82 mg/mL (4.77 mM; ultrasonic and warming and heat to 60°C) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

PQM130, a Feruloyl-Donepezil Hybrid compound with brain penetration, is a multitarget drug candidate against the neurotoxicity induced by A β 1-42 oligomer (A β O) and shows anti-inflammatory activity. PQM130 acts as a neuroprotective compound for anti-AD drug development[1].

PQM130 (0.5-1 mg/kg, i.p., daily for 10 days) treatment after the i.c.v. A β O injection reduces oxidative damage and neuroinflammation and induces cell survival and protein synthesis through the modulation of GSK3 β and extracellular signal-regulated kinases (ERK1/2) [1]. Animal Model: Adult male C57Bl/6 mice (9 weeks old, 25-30 g body weight) [1].

[1]. Morroni 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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