

ML353

Chemical Properties

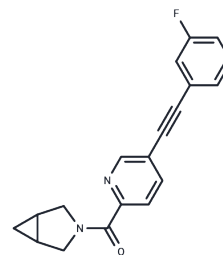
CAS No. :

Formula: C₁₉H₁₅FN₂O

Molecular Weight: 306.33

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	ML353 (VU0478006) is a selective activator of TREK-1 and TREK-2 and a selective ligand (K _i = 18.2 nM) for the mGlu5 Silencing Allosteric Modulator (SAM). ML353 has potential as a solution to the intrinsic activity or pharmacological blockade of SAM in vivo.
Targets(IC50)	GluR, Potassium Channel
In vitro	ML353 is a highly soluble compound with a solubility of 16.9 μM or 6.0 μg/mL (pH=7.4) in PBS. ML353 demonstrates excellent stability in PBS buffer.[1]

Solubility Information

Solubility	DMSO: 25 mg/mL (81.61 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	3.2645 mL	16.3223 mL	32.6445 mL
5 mM	0.6529 mL	3.2645 mL	6.5289 mL
10 mM	0.3264 mL	1.6322 mL	3.2645 mL
50 mM	0.0653 mL	0.3264 mL	0.6529 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

Gregory KJ, et al. Identification of a high affinity MPEP-site silent allosteric modulator (SAM) for the metabotropic glutamate subtype 5 receptor (mGlu5). In: Probe Reports from the NIH Molecular Libraries Program. 2013.

Lee OW, et al. Cytotoxic Profiling of Annotated and Diverse Chemical Libraries Using Quantitative High-Throughput Screening. SLAS Discov. 2020;25(1):9-20.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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