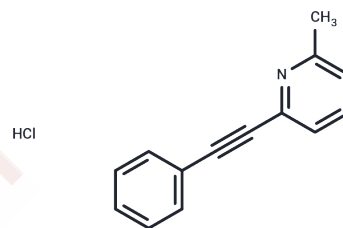


MPEP hydrochloride

Chemical Properties

CAS No. :	219911-35-0
Formula:	C ₁₄ H ₁₂ ClN
Molecular Weight:	229.7
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	MPEP hydrochloride is an effective and highly specific non-competitive antagonist at the mGlu5 receptor subtype (IC ₅₀ : 36 nM).
Targets(IC ₅₀)	GluR
Kinase Assay	Biochemical kinase assays: Solubilized membranes from 3T3 Flk-1 cells are added to polystyrene ELISA plates that had been precoated with a monoclonal antibody that recognizes Flk-1. After an overnight incubation with lysate at 4 °C, serial dilutions of SU5416 are added to the immunolocalized receptor. To induce autophosphorylation of the receptor, various concentrations of ATP are added to the ELISA plate wells containing serially diluted solutions of SU5416. The autophosphorylation is allowed to proceed for 60 min at room temperature and then stopped with EDTA. The amount of phosphotyrosine present on the Flk-1 receptors in the individual wells is determined by incubating the immunolocalized receptor with a biotinylated monoclonal antibody directed against phosphotyrosine. After removal of the unbound anti-phosphotyrosine antibody, avidin-conjugated horseradish peroxidase H is added to the wells. A stabilized form of 3,3',4,4'-tetramethyl benzidine dihydrochloride and Water2 is added to the wells. The color readout of the assay is allowed to develop for 30 min, and the reaction is stopped with H ₂ SO ₄ .

Solubility Information

Solubility	DMSO: 60 mg/mL (261.21 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	4.3535 mL	21.7675 mL	43.535 mL
5 mM	0.8707 mL	4.3535 mL	8.707 mL
10 mM	0.4354 mL	2.1768 mL	4.3535 mL
50 mM	0.0871 mL	0.4354 mL	0.8707 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

Inta Dragos, et al. Neuropharmacology (2012), 62(5-6), 2034-2039.

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