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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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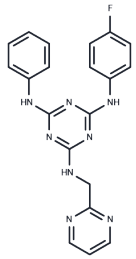
Data Sheet (Cat.No.T9070)

TargetMol

ASP2905

Chemical Properties



CAS No. : 792184-90-8

Formula: C20H17FN8

Molecular Weight: 388.4

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	ASP-2905 is a potent and selective inhibitor of potassium channel Kv12.2 encoded by the Kcnh3/BEC1 gene. It can cross the blood-brain barrier and has antipsychotic activities
Targets(IC50)	Potassium Channel
In vitro	ASP2905 (0.1 M, 1 M) decreased the frequency of spontaneous inhibitory postsynaptic currents in cultured rat hippocampal neurons.?In mice, ASP2905 reversed the disruption of spontaneous alternation behavior induced by MK-801 and scopolamine (minimum effective dose of ASP2905: 0.0625mg/kg, po).?ASP2905 ameliorated the cognitive deficits of aged rats in step-through passive avoidance (0.0313 and 0.0625mg/kg, po) and Morris water-maze tasks (0.01mg/kg, po) and effectively penetrated the brain.?The mean plasma and brain concentrations of ASP2905 reached their maxima (Cmax = 0.399 ng/ml and 1.77ng/g, respectively) 1h after a single oral administration and then decreased (t1/2 = 1.5-1.6h) (brain plasma ratio = 2.7-4.9).?ASP2905 is a selective, orally administered inhibitor of KCNH3, which can enhance cognitive performance[1].
In vivo	ASP2905 on channel activity in vitro and its neuropharmacological properties in young and aged rats as well as in mice.?ASP2905 potently inhibited potassium currents in CHO cells expressing KCNH3 (IC50 = 9.0nM).?In contrast, ASP2905 (10μM) minimally bound with low affinities to 55 transmembrane proteins.[1]

Solubility Information

Solubility	DMSO: 27.5 mg/mL (70.8 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5747 mL	12.8733 mL	25.7467 mL
5 mM	0.5149 mL	2.5747 mL	5.1493 mL
10 mM	0.2575 mL	1.2873 mL	2.5747 mL
50 mM	0.0515 mL	0.2575 mL	0.5149 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.

Reference

Shinji Takahashi, et al. Neurochemical and neuropharmacological characterization of ASP2905, a novel potent selective inhibitor of the potassium channel KCNH3. Eur J Pharmacol. 2017 Sep 5;810:26-35.