Data Sheet (Cat.No.T15781)



LP-935509

Chemical Properties

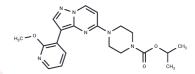
CAS No.: 1454555-29-3

Formula: C20H24N6O3

Molecular Weight: 396.44

Appearance: no data available

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



Biological Description

Description	LP-935509 is highly brain-penetrant and reverses fully established pain behavior following the SNL procedure. LP-935509 is an effective inhibitor of BIKE (IC50=14 nM) and a modest inhibitor of cyclin G-associated kinase(GAK, IC50=320 nM). LP-935509 is also a ATP-competitive inhibitor of adapter protein-2 associated kinase 1 (AAK1) (IC50 = 3.3 nM, Ki = 0.9 nM).
Targets(IC50)	Serine/threonin kinase,AAK1 (AP2 associated kinase 1)

Solubility Information

Solubility DMSO: 175 mg/mL (441.43 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5224 mL	12.6122 mL	25.2245 mL
5 mM	0.5045 mL	2.5224 mL	5.0449 mL
10 mM	0.2522 mL	1.2612 mL	2.5224 mL
50 mM	0.0504 mL	0.2522 mL	0.5045 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

Kostich W, et al. Inhibition of AAK1 Kinase as a Novel Therapeutic Approach to Treat Neuropathic Pain. J Pharmacol Exp Ther. 2016 Sep;358(3):371-86.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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