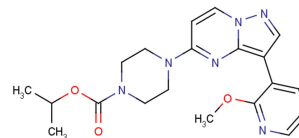


LP-935509

Chemical Properties

CAS No.:	1454555-29-3
Formula:	C ₂₀ H ₂₄ N ₆ O ₃
Molecular Weight:	396.44
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	LP-935509 is highly brain-penetrant and reverses fully established pain behavior following the SNL procedure. LP-935509 is also an effective inhibitor of BIKE (IC ₅₀ =14 nM) and a modest inhibitor of GAK (IC ₅₀ =320 nM). LP-935509 is a selective, ATP-competitive, and brain-penetrant inhibitor of adapter protein-2 associated kinase 1 (AAK1) (IC ₅₀ and a K _i of 3.3 nM and 0.9 nM, respectively).
Targets(IC ₅₀)	AAK1: 3.3 nM BIKE: 14 nM GAK: 320 nM

Solubility Information

Solubility	DMSO: 250 mg/mL (630.61 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.522 mL	12.612 mL	25.224 mL
5 mM	0.504 mL	2.522 mL	5.045 mL
10 mM	0.252 mL	1.261 mL	2.522 mL
50 mM	0.05 mL	0.252 mL	0.504 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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