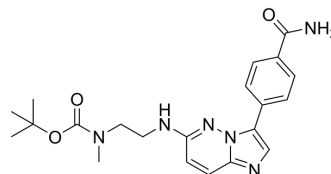


## LP-922761

Cat. No.:	HY-120179		
CAS No.:	1454808-95-7		
Molecular Formula:	C <sub>21</sub> H <sub>26</sub> N <sub>6</sub> O <sub>3</sub>		
Molecular Weight:	410.47		
Target:	AAK1		
Pathway:	Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 41.67 mg/mL (101.52 mM; ultrasonic and warming and heat to 80°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.4362 mL	12.1812 mL	24.3623 mL
5 mM	0.4872 mL	2.4362 mL	4.8725 mL
10 mM	0.2436 mL	1.2181 mL	2.4362 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

LP-922761 is a potent, selective and orally active adapter protein-2 associated kinase 1 (AAK1) inhibitor with IC<sub>50</sub>s of 4.8 nM and 7.6 nM in enzyme and cell assays, respectively. LP-922761 also inhibits BMP-2-inducible protein kinase (BIKE) with an IC<sub>50</sub> of 24 nM. LP-922761 exhibits no significant activity at cyclin G-associated kinase (GAK), opioid, adrenergic α<sub>2</sub> or GABA<sub>A</sub> receptors<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 4.8 nM (Adapter protein-2 associated kinase 1 (AAK1) in enzyme assays); 7.6 nM (AAK1 in cell assays); 24 nM (BMP-2-inducible protein kinase (BIKE))<sup>[1]</sup>

#### In Vivo

In mouse, LP-922761 has a brain to plasma ratio of 0.007, indicating that LP-922761 is essentially restricted to the peripheral compartment<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA