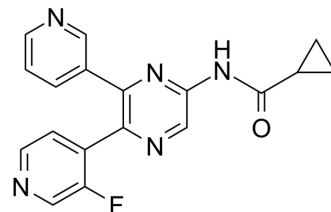


LAS101057

Cat. No.:	HY-14390
CAS No.:	925676-48-8
Molecular Formula:	C ₁₈ H ₁₄ FN ₃ O
Molecular Weight:	335.34
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 125 mg/mL (372.76 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.9820 mL	14.9102 mL	29.8205 mL
	5 mM	0.5964 mL	2.9820 mL	5.9641 mL
	10 mM	0.2982 mL	1.4910 mL	2.9820 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (6.20 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (6.20 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

LAS101057 is a potent, selective, and orally efficacious A2B receptor antagonist.

In Vivo

At 3 mg/kg, LAS101057 is active in preventing Acetyl-β-methylcholine-induced AHR, and at 10 mg/kg it inhibits AHR to Acetyl-β-methylcholine to a level virtually equal to that seen with Hexadecadrol at 1 mg/kg^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Paul Eastwood, et al. Discovery of LAS101057: A Potent, Selective, and Orally Efficacious A2B Adenosine Receptor Antagonist. ACS Med Chem Lett. 2011 Mar 10; 2(3): 213-218.

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

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