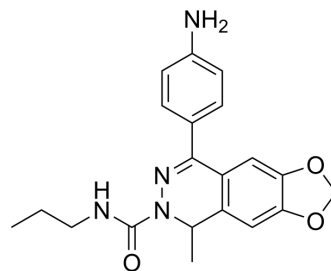


SYM2206

Cat. No.:	HY-18689		
CAS No.:	173952-44-8		
Molecular Formula:	C ₂₀ H ₂₂ N ₄ O ₃		
Molecular Weight:	366.41		
Target:	iGluR		
Pathway:	Membrane Transporter/Ion Channel; 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 : 100 mg/mL (272.92 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.7292 mL	13.6459 mL	27.2918 mL
5 mM	0.5458 mL	2.7292 mL	5.4584 mL
10 mM	0.2729 mL	1.3646 mL	2.7292 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: ≥ 2.75 mg/mL (7.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.75 mg/mL (7.51 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

SYM2206 is a potent and non-competitive AMPA receptor antagonist, with an IC₅₀ of 1.6 μM. SYM2206 blocks Na_v1.6-mediated persistent currents^{[1][2]}.

REFERENCES

- [1]. Welch NC, et al. Traditional AMPA receptor antagonists partially block Na v1.6-mediated persistent current. *Neuropharmacology*. 2008 Dec;55(7):1165-71.
- [2]. Bleakman D, et, al. Kainate receptor agonists, antagonists and allosteric modulators. *Curr Pharm Des*. 2002;8(10):873-85.

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

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