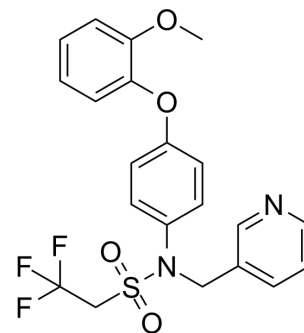


## LY487379

<b>Cat. No.:</b>	HY-122255		
<b>CAS No.:</b>	353231-17-1		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>19</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub> S		
<b>Molecular Weight:</b>	452.45		
<b>Target:</b>	mGluR		
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (221.02 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	2.2102 mL	11.0509 mL	22.1019 mL
		5 mM	0.4420 mL	2.2102 mL	4.4204 mL
	10 mM	0.2210 mL	1.1051 mL	2.2102 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 10 mg/mL (22.10 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	LY487379 is a selective human mGluR2 positive allosteric modulator (PAM). LY487379 potentiates glutamate-stimulated [ <sup>35</sup> S]GTPγS binding with EC <sub>50</sub> values of 1.7 μM and >10 μM for mGlu2 and mGlu3 receptors respectively. LY487379 promotes cognitive flexibility and facilitates behavioral inhibition in a rat model. LY487379 can be used for schizophrenia research <sup>[2]</sup> .
<b>In Vivo</b>	LY487379 (intraperitoneal injection; 30 mg/kg; injected 30 min before the test) requires significantly fewer trials to criterion during the ED phase of the ASST in attentional set-shifting task in male Sprague-Dawley rats. But there has no significant drug effect during any other discrimination stage <sup>[1]</sup> . LY487379 hydrochloride (intraperitoneal injection; 10-30 mg/kg) induces an increase in microdialysate norepinephrine levels; the dose-effect resembled a bell-shape relationship increased. And it dose-dependently increases extracellular serotonin levels in the medial prefrontal cortex in male Sprague-Dawley rats <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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- [1]. Nikiforuk A, et al. Effects of a positive allosteric modulator of group II metabotropic glutamate receptors, LY487379, on cognitive flexibility and impulsive-like responding in rats. *J Pharmacol Exp Ther.* 2010;335(3):665-673.
- [2]. Schaffhauser H, et al. Pharmacological characterization and identification of amino acids involved in the positive modulation of metabotropic glutamate receptor subtype 2. *Mol Pharmacol.* 2003;64(4):798-810.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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