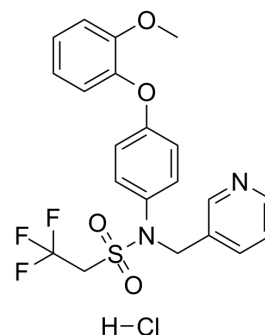


## LY487379 hydrochloride

<b>Cat. No.:</b>	HY-103552
<b>CAS No.:</b>	353229-59-1
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>20</sub> ClF <sub>3</sub> N <sub>2</sub> O <sub>4</sub> S
<b>Molecular Weight:</b>	488.91
<b>Target:</b>	mGluR
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	LY487379 hydrochloride is a selective human mGluR2 positive allosteric modulator (PAM). LY487379 hydrochloride 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 hydrochloride promotes cognitive flexibility and facilitates behavioral inhibition in a rat model. LY487379 hydrochloride can be used for schizophrenia research <sup>[2]</sup> .
<b>In Vivo</b>	LY487379 hydrochloride (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.

### REFERENCES

- [1]. Agnieszka Nikiforuk, 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 Dec;335(3):665-73.
- [2]. Hervé Schaffhauser, et al. Pharmacological characterization and identification of amino acids involved in the positive modulation of metabotropic glutamate receptor subtype 2. *Mol Pharmacol.* 2003 Oct;64(4):798-810.

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

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