Product Data Sheet

Product Name: LY487379
Cat. No.: GC64319

Chemical Properties

Cas. No.	353231-17-1		
Formula	C21H19F3N2O4S	M.Wt	452.45
Solubility	DMSO : 100 mg/mL (221.02 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	LY487379		

Background

LY487379 is a selective human mGluR2 positive allosteric modulator (PAM). LY487379 potentiates glutamate-stimulated [35S]GTPγS binding with EC50 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[2].

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[1].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[1].

[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

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acids involved in the positive modulation of metabotropic glutamate receptor subtype 2. Mol Pharmacol. 2003;64(4):798-810.

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