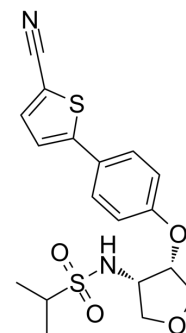


Pesampator

Cat. No.:	HY-112781		
CAS No.:	1258963-59-5		
Molecular Formula:	C ₁₈ H ₂₀ N ₂ O ₄ S ₂		
Molecular Weight:	392.49		
Target:	iGluR		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (254.78 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.5478 mL	12.7392 mL	25.4784 mL
5 mM	0.5096 mL	2.5478 mL	5.0957 mL
10 mM	0.2548 mL	1.2739 mL	2.5478 mL

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

BIOLOGICAL ACTIVITY

Description

Pesampator (PF-04958242) is a potent and highly selective positive allosteric modulator of AMPA receptor (an AMPA potentiator) with an EC₅₀ of 310 nM and a K_i of 170 nM^[1].

In Vivo

Pesampator (0.1-1 mg/kg; SC) dose-dependently increases CD-1 mouse cerebellum cGMP and Pesampator (0.1-0.32 mg/kg; SC) decreases fall latency in C57BL/6J mice traversing an accelerating rotarod^[1].

Pesampator (0.001-0.01 mg/kg; male Sprague-Dawley rats) reverses the MK-801-mediated (0.05 mg/kg; IV) reduction in paired-pulse facilitation (PPF) after cumulative or a single (0.01 mg/kg) intravenous dose^[1].

Pesampator (0.0032-0.032 mg/kg; SC) attenuates ketamine-induced working memory disruptions in rats as determined by mean errors in a radial arm maze^[1].

In rats, Pesampator (0.027, 0.08, and 0.60 mg/kg; SC) dose-dependently affects the regional brain uptake of 2-deoxy-2-[¹⁸F]fluoro-d-glucose (FDG)^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Shaffer CL, et al. The discovery and characterization of the α -amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid (AMPA) receptor potentiator N-((3S,4S)-4-[4-(5-cyano-2-thienyl)phenoxy]tetrahydrofuran-3-yl)propane-2-sulfonamide (PF-04958242). J Med Chem. 2015;58(10):4291-4308.

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

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