
Product Data Sheet

Product Name: Pesampator

Cat. No.: GC64929

Chemical Properties

Cas. No. 1258963-59-5

Formula C₁₈H₂₀N₂O₄S₂ M.Wt 392.49

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C 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

Background

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].

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].

[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.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA