

Product Data Sheet

Product Name: BPAM344

Cat. No.: GC62874

Chemical Properties

Cas. No. 1204572-55-3

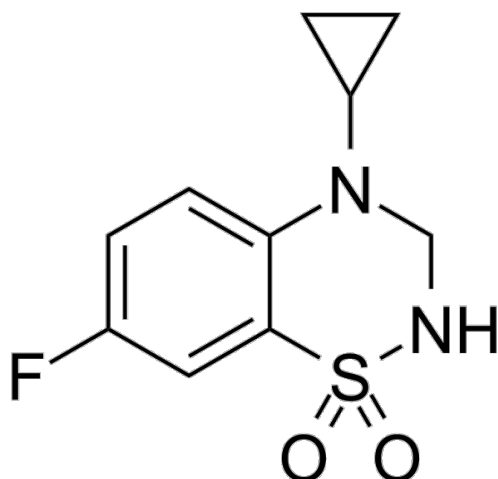
Formula $C_{10}H_{11}FN_2O_2S$ M.Wt 242.27

Solubility DMSO : 250 mg/mL (1031.91 mM; Storage 4°C, protect from light
Need ultrasonic)

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

BPAM344 is a kainate receptor (KAR) subunits GluK1b, GluK2a, and GluK3a positive allosteric modulator (PAM)[1].

BPAM344 potentiates glutamate-evoked currents of GluK2a 21-fold at the highest concentration tested (200 μ M), with an EC₅₀ of 79 μ M. BPAM344 markedly decreases desensitization kinetics

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

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(from 5.5 to 775 ms), whereas it only has a minor effect on deactivation kinetics[1]. BPAM344 (100 μ M) also potentiates the peak current amplitude of KAR subunits GluK3a (59-fold), GluK2a (15-fold), GluK1b (5-fold), as well as the AMPA receptor subunit GluA1i (5-fold)[1].

[1]. Anja Probst Larsen, et al. Identification and Structure-Function Study of Positive Allosteric Modulators of Kainate Receptors. Mol Pharmacol. 2017 Jun;91(6):576-585.

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