AMPA receptor modulator-3

Cat. No.: HY-122150

CAS No.: 211311-39-6

Molecular Formula: $C_{18}H_{22}FNO_2S$

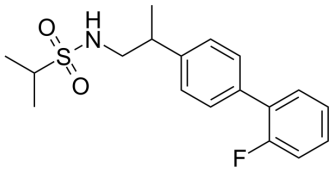
Molecular Weight: 335.44

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 : 250 mg/mL (745.29 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9812 mL	14.9058 mL	29.8116 mL
	5 mM	0.5962 mL	2.9812 mL	5.9623 mL
	10 mM	0.2981 mL	1.4906 mL	2.9812 mL

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

BIOLOGICAL ACTIVITY

Description

AMPA receptor modulator-3 is an allosteric AMPA receptor modulator (EC_{50}: 4.4 μM). AMPA receptor modulator-3 can be used in the research of mammalian nervous system, such as learning and memory[1][2].

IC_{50} & Target

AMPA Receptor
4.4 μM (EC50)

In Vitro

AMPA receptor modulator-3 (Compound 5e) shows an EC_{50} value of 4.4 μM for potentiation of responses mediated by 100 μM L-glutamate in HEK-293 cells expressing iGluR4 flip[2].

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

REFERENCES

[1]. Kasper Harpsøe, et al. Prediction of the binding mode of biarylpropylsulfonamide allosteric AMPA receptor modulators based on docking, GRID molecular interaction

fields and 3D-QSAR analysis. J Mol Graph Model. 2008 Jan;26(5):874-83. https://pubmed.ncbi.nl

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