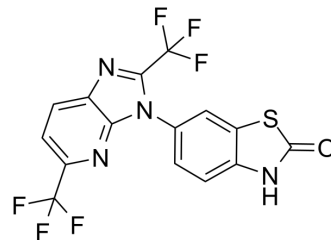


AMPA receptor modulator-2

Cat. No.:	HY-136275		
CAS No.:	2034181-36-5		
Molecular Formula:	C ₁₅ H ₆ F ₆ N ₄ OS		
Molecular Weight:	404.29		
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 (618.37 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.4735 mL	12.3674 mL	24.7347 mL
	5 mM	0.4947 mL	2.4735 mL	4.9469 mL
	10 mM	0.2473 mL	1.2367 mL	2.4735 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.08 mg/mL (5.14 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.08 mg/mL (5.14 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.08 mg/mL (5.14 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

AMPA receptor modulator-2 (Example 134) is a AMPA receptor modulator, with a pIC₅₀ of 10.1 for TARPγ2 dependent AMPA receptor^[1]. pIC₅₀ = -lgIC₅₀.

IC₅₀ & Target

pIC₅₀: AMPA receptor (10.1)^[1].

REFERENCES

[1]. BERRY CYNTHIA G B (US), et al. AZABENZIMIDAZOLES AND THEIR USE AS AMPA RECEPTOR MODULATORS. Patent. WO2016176460.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA