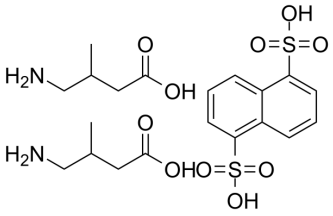
3-Methyl-GABA

Cat. No.:	HY-115685
CAS No.:	1216629-00-3
Molecular Formula:	$C_{20}H_{30}N_2O_{10}S_2$
Molecular Weight:	522.59
Target:	GABA Receptor
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 : 125 mg/mL (239.19 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9135 mL	9.5677 mL	19.1355 mL
	5 mM	0.3827 mL	1.9135 mL	3.8271 mL
	10 mM	0.1914 mL	0.9568 mL	1.9135 mL

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

BIOLOGICAL ACTIVITY

Description

3-Methyl-GABA is a potent GABA aminotransferase activator. 3-Methyl-GABA can fit the binding pocket of $GABA_A$ receptor (GABAaR). 3-Methyl-GABA can activate L-glutamic acid decarboxylase (GAD). 3-Methyl-GABA has anticonvulsant activity[1][2].

In Vitro

The GAD activation is stereoselective for the R isomer of 3-methyl GABA relative to the corresponding S isomer[1].

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

REFERENCES

[1]. R B Silverman, et al. 3-Alkyl-4-aminobutyric acids: the first class of anticonvulsant agents that activates L-glutamic acid decarboxylase. J Med Chem. 1991 Jul;34(7):2295-8.

[2]. Z. YANG, et al. MOLECULAR INTERACTIONS OF GABA ANALOGUES AGAINST THE α+β-INTERFACE OF GABAARECEPTOR: DOCKING AND MOLECULAR DYNAMICS STUDIES. Digest Journal of Nanomaterials and Biostructures, Vol. 10, No. 3, July -September 2015.

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

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