ZAPA sulfate

Cat. No.: HY-100799

CAS No.: 371962-01-5

Molecular Formula: $C_4H_8N_2O_6S_2$

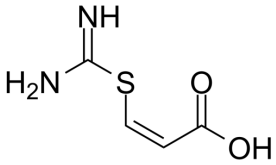
Molecular Weight: 244.25

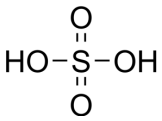
Target: GABA Receptor

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: -20°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)





SOLVENT & SOLUBILITY

In Vitro

DMSO : 31.25 mg/mL (127.94 mM; ultrasonic and warming and heat to 60°C)

H_2O : 1.64 mg/mL (6.71 mM; ultrasonic and warming and adjust pH to 3 with HCl and heat to 60°C)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	4.0942 mL	20.4708 mL	40.9417 mL
5 mM	0.8188 mL	4.0942 mL	8.1883 mL
10 mM	0.4094 mL	2.0471 mL	4.0942 mL

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

BIOLOGICAL ACTIVITY

Description

ZAPA sulfate is an agonist at low affinity $GABA_A$-receptors. ZAPA sulfate induces membrane hyperpolarization of the Ascaris muscle cell with an EC_{50} of 10.3 μM[1][2].

In Vitro

Local applications of ZAPA (100 μM) sulfate transiently increases $[Ca^{2+}]_i$, similar to the GABA-evoked responses[1].

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

REFERENCES

[1]. Yokogawa T, et al. Analysis of GABAA-and GABAB-receptor mediated effects on intracellular Ca2+ in DRG hybrid neurones. British journal of pharmacology, 2001, 134(1): 98-107.

[2]. Holden-Dye L, et al. ZAPA, (Z)-3-[(aminoiminomethyl)thio]-2-propenoic acid hydrochloride, a potent agonist at GABA-receptors on the Ascaris muscle cell. Br J Pharmacol. 1988 Sep;95(1):3-5.

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

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