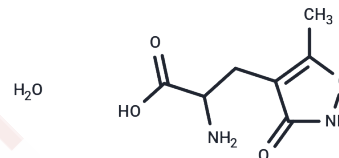


(RS)-AMPA monohydrate

Chemical Properties

CAS No. :	76463-67-7
Formula:	C7H12N2O5
Molecular Weight:	204.182
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	(RS)-AMPA ((±)-AMPA) monohydrate, a potent and selective agonist of the excitatory neurotransmitter L-glutamic acid and a glutamate analogue, does not interact with the binding sites of kainic acid or NMDA receptors, highlighting its selectivity [1] [2].
Targets(IC50)	Others, iGluR
In vitro	(RS)-AMPA monohydrate (10 ⁻³ -10 ⁻⁴ M) leads to depolarizations of cultured rat spinal and brainstem neurones. The depolarization by (RS)-AMPA monohydrate is clearly dose-dependent, although there is a great variability of effects between individual neurones. Application of (RS)-AMPA monohydrate at 10 ⁻⁵ M produces only small depolarizations (3-7 mV), whereas at 10 ⁻⁴ M, the amplitudes of the depolarizations ranged from 4 to 33 mV. (RS)-AMPA monohydrate also causes an increase of the discharge rate of spontaneously firing neurones or sometimes evoked a short burst of action potentials in silent cells. (RS)-AMPA monohydrate exerts its depolarizing effects by activating glutamate/quisqualate receptors without affecting NMDA receptors [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.8976 mL	24.4882 mL	48.9764 mL
5 mM	0.9795 mL	4.8976 mL	9.7953 mL
10 mM	0.4898 mL	2.4488 mL	4.8976 mL
50 mM	0.098 mL	0.4898 mL	0.9795 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481