

(R)-AS-1

Chemical Properties

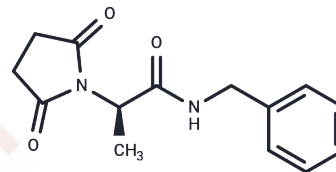
CAS No. : 2506367-95-7

Formula: C₁₄H₁₆N₂O₃

Molecular Weight: 260.29

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	(R)-AS-1 is a selective positive allosteric modulator of excitatory amino acid transporter 2 (EAAT2), with an EC ₅₀ of 11 nM. At doses of 60 and 90 mg/kg, (R)-AS-1 enhances spontaneous locomotor activity in mice. It demonstrates anticonvulsant properties in mouse seizure models induced by maximal electroshock (MES), pentylenetetrazole (PTZ), or electric current stimulation (32 or 44 mA), with ED ₅₀ values of 66.3, 36.3, 15.6, and 41.6 mg/kg, respectively. This compound is applicable in neurological disease research.
Targets(IC ₅₀)	Others, transporter

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8419 mL	19.2093 mL	38.4187 mL
5 mM	0.7684 mL	3.8419 mL	7.6837 mL
10 mM	0.3842 mL	1.9209 mL	3.8419 mL
50 mM	0.0768 mL	0.3842 mL	0.7684 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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