

GABAA receptor agent 8

Chemical Properties

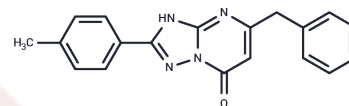
CAS No. : 2376841-54-0

Formula: C₁₉H₁₆N₄O

Molecular Weight: 316.36

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	GABAA receptor agent 8 (compound 5e) is a potent positive modulator of the GABAA receptor, exhibiting anticonvulsant activity in both in vitro and in vivo studies, with low neurotoxicity, indicating its potential in epilepsy research [1].
Targets(IC50)	Others,GABA Receptor
In vitro	GABAA receptor agent 8 (compound 5e) demonstrates anticonvulsant activity, evidenced by an IC ₅₀ of 0.334 μM in the 4-AP induced hyper-excitability model [1]. Additionally, this compound enhances GABA-induced activation of the GABAA1 receptor in a dose-dependent manner over a range of 0.01-100 μM and a duration of 0-140 seconds, with an EC ₅₀ of 12.02 μM.
In vivo	GABAA receptor agent 8 (compound 5e) demonstrates anticonvulsant efficacy in mice, exhibiting an effective dose (ED ₅₀) of 40.95 mg/kg and a toxic dose (TD ₅₀) of 372.39 mg/kg [1]. This agent specifically mitigates seizures induced by pentylenetetrazol (PTZ) without affecting those caused by maximal electroshock (MES) in mice [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.161 mL	15.8048 mL	31.6096 mL
5 mM	0.6322 mL	3.161 mL	6.3219 mL
10 mM	0.3161 mL	1.5805 mL	3.161 mL
50 mM	0.0632 mL	0.3161 mL	0.6322 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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