

GABAA receptor agent 5

Chemical Properties

CAS No. : 1808389-92-5

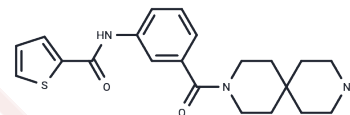
Formula: C₂₁H₂₅N₃O₂S

Molecular Weight: 383.51

Store at low temperature

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 5 demonstrates antagonist activity across multiple GABAA receptor subtypes, and GABAA receptor agent 5 exhibits IC ₅₀ values of 0.24, 0.088, 0.068, 0.33, 0.79, 0.32, 0.079, and 0.051 μ M for α 1 β 2 δ , α 4 β 1 δ , α 4 β 2 δ , α 6 β 2 δ , α 1 β 2 γ 2, α 2 β 2 γ 2, α 3 β 2 γ 2, and α 5 β 2 γ 2 receptor configurations, respectively. GABAA receptor agent 5 (compound 018) thereby provides a precise pharmacological tool for characterizing subtype-selective GABAA receptor inhibition and supports mechanistic neuropharmacology studies focused on inhibitory synaptic signaling and therapeutic antagonist development.
Targets(IC ₅₀)	GABA Receptor
In vitro	GABAA receptor agent 5 (compound 018) exhibited antagonistic activity against various receptor subtypes, with half-maximal inhibitory concentration (IC ₅₀) values of 0.24, 0.088, 0.068, 0.33, 0.79, 0.32, 0.079, and 0.051 μ M for the α 1 β 2 δ , α 4 β 1 δ , α 4 β 2 δ , α 6 β 2 δ , α 1 β 2 γ 2, α 2 β 2 γ 2, α 3 β 2 γ 2, and α 5 β 2 γ 2 subtypes, respectively [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6075 mL	13.0375 mL	26.0749 mL
5 mM	0.5215 mL	2.6075 mL	5.215 mL
10 mM	0.2607 mL	1.3037 mL	2.6075 mL
50 mM	0.0521 mL	0.2607 mL	0.5215 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.

Reference

Bavo F, et al. Structure-Activity Studies of 3,9-Diazaspiro[5.5]undecane-Based γ -Aminobutyric Acid Type A Receptor Antagonists with Immunomodulatory Effect. J Med Chem. 2021 Dec 23;64(24):17795-17812.

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