

Tracazolate hydrochloride

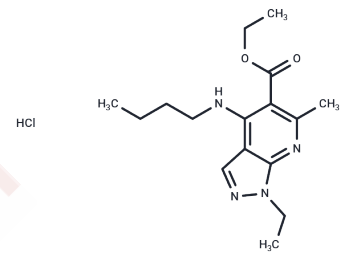
Chemical Properties

CAS No. : 1135210-68-2

Formula: C₁₆H₂₅ClN₄O₂

Molecular Weight: 340.85

Storage: Store at low temperature, Keep away from direct sunlight
 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	Tracazolate hydrochloride (Tracazolate (hydrochloride)) is a modulator of the GABAA receptor with anxiolytic and anticonvulsant activity. Tracazolate hydrochloride potentiates $\alpha 1\beta 1\gamma 2s$ and $\alpha 1\beta 3\gamma 2$ with EC50s of 13.2 μ M and 1.5 μ M.
Targets(IC50)	GABA Receptor
In vitro	Tracazolate hydrochloride (10 μ M) enhanced the sensitivity of $\alpha 1\beta 2\delta$ -containing GABAA receptors and increased the maximum current amplitude in oocytes [1]. Tracazolate hydrochloride inhibited $\alpha 1\beta 1\epsilon$, $\alpha 1\beta 3\epsilon$, $\alpha 1\beta 3$, and $\alpha 6\beta 3\gamma$ with EC50s of 4.0 μ M, 1.2 μ M, 2.7 μ M, and 1.1 μ M. Tracazolate hydrochloride interacted with γ -aminobutyric acid GABAA receptors, adenosine receptors, and phosphodiesterases [2].

Solubility Information

Solubility	DMSO: 100 mg/mL (293.38 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9338 mL	14.6692 mL	29.3384 mL
5 mM	0.5868 mL	2.9338 mL	5.8677 mL
10 mM	0.2934 mL	1.4669 mL	2.9338 mL
50 mM	0.0587 mL	0.2934 mL	0.5868 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

N Zheleznova, et al. alpha1beta2delta, a silent GABAA receptor: recruitment by tracazolate and neurosteroids. Br J Pharmacol. 2008 Mar;153(5):1062-71.

Sally-Anne Thompson, et al. Tracazolate reveals a novel type of allosteric interaction with recombinant gamma-aminobutyric acid(A) receptors. Mol Pharmacol. 2002 Apr;61(4):861-9.

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