

$\gamma$ -Acetylenic GABA hydrochloride

## Chemical Properties

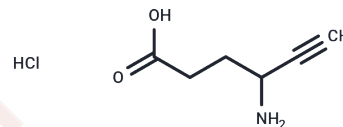
CAS No. : 103451-26-9

Formula: C<sub>6</sub>H<sub>10</sub>ClNO<sub>2</sub>

Molecular Weight: 163.6

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	$\gamma$ -Acetylenic GABA hydrochloride is a GABA transaminase inhibitor.
Targets(IC50)	GABA Receptor, Transaminase
In vivo	Intraperitoneal injection of $\gamma$ -Acetylenic GABA hydrochloride (100 mg/kg) inhibits the activity of GABA transaminase and increases the concentration of GABA in rat brains potently[2].

## Solubility Information

Solubility	DMSO: 250 mg/mL (1528.12 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 5 mg/mL (30.56 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	6.1125 mL	30.5623 mL	61.1247 mL
5 mM	1.2225 mL	6.1125 mL	12.2249 mL
10 mM	0.6112 mL	3.0562 mL	6.1125 mL
50 mM	0.1222 mL	0.6112 mL	1.2225 mL

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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

- Casey DE, et, al. gamma-Acetylenic GABA in tardive dyskinesia. Arch Gen Psychiatry. 1980 Dec;37(12):1376-9.
- Palfreyman MG, et, al. The effect of gamma-acetylenic GABA, an enzyme-activated irreversible inhibitor of GABA-transaminase, on dopamine pathways of the extrapyramidal and limbic systems. Eur J Pharmacol. 1978 Aug 15;50(4):325-36.
- Alabed S, et, al. Gamma-aminobutyric acid agonists for neuroleptic-induced tardive dyskinesia. Cochrane Database Syst Rev. 2011 Apr 13;(4):CD000203.

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