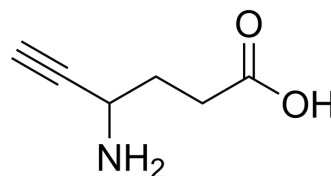


γ-Acetylenic GABA

| | |
|---------------------------|---|
| Cat. No.: | HY-131693 |
| CAS No.: | 57659-38-8 |
| Molecular Formula: | C ₆ H ₉ NO ₂ |
| Molecular Weight: | 127.14 |
| Target: | GABA Receptor |
| Pathway: | Membrane Transporter/Ion Channel; Neuronal Signaling |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|---|
| Description | γ-Acetylenic GABA (4-Aminohex-5-ynoic acid) is an irreversible inhibitor of GABA-transaminase. γ-Acetylenic GABA can increase the concentration of GABA in rat brain ^{[1][2][3]} . γ-Acetylenic GABA is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups. |
| IC₅₀ & Target | GABA-transaminase ^[1] |
| In Vivo | γ-Acetylenic GABA (100 mg/kg i.p.) inhibits GABA-transaminase activity and causes a several-fold increase in the concentration of GABA in rat brain ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

- [1]. Casey DE, et, al. gamma-Acetylenic GABA in tardive dyskinesia. Arch Gen Psychiatry. 1980 Dec;37(12):1376-9.
- [2]. 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.
- [3]. Alabed S, et, al. Gamma-aminobutyric acid agonists for neuroleptic-induced tardive dyskinesia. Cochrane Database Syst Rev. 2011 Apr 13;(4):CD000203.

Caution: Product has not been fully validated for medical applications. For research use only.

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