

Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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PRODUCT INFORMATION



TACA

Item No. 35217

CAS Registry No.: 38090-53-8

Formal Name: 4-amino-2E-butenoic acid Synonym: trans-4-Aminocrotonic Acid

MF: $C_4H_7NO_2$ FW: 101.1 **Purity:** ≥95% Supplied as: A solid Storage: -20°C Stability: ≥4 years

Special Conditions: Light and temperature sensitive

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

TACA is supplied as a solid. A stock solution may be made by dissolving the TACA in the solvent of choice, which should be purged with an inert gas. TACA is slightly soluble in methanol.

TACA is slightly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

TACA is an agonist of the $\rho 1$ subunit-containing homomeric GABA_A receptor, previously known as the GABA_C receptor. 1,2 It binds to homomeric GABA_A receptors ($K_i = 0.36 \mu M$) and induces chloride currents in X. laevis oocytes expressing the human receptor ($\stackrel{\frown}{EC}_{50}$ = 0.53 $\stackrel{\frown}{\mu}$ M). TACA (20 mg/kg) inhibits anxiolytic-like activity induced by the flavonoid quercetin (Item No. 10005169) in mice.3

References

- 1. Chang, Y., Covey, D.F., and Weiss, D.S. Correlation of the apparent affinities and efficacies of γ-aminobutyric acid_c receptor agonists. Mol. Pharmacol. 58(6), 1375-1380 (2000).
- 2. Chebib, M., Vandenberg, R.J., and Johnston, G.A.R. Analogues of γ-aminobutyric acid (GABA) and trans-4-aminocrotonic acid (TACA) substituted in the 2 position as GABA_C receptor antagonists. Br. J. Pharmacol. 122(8), 1551-1560 (1997).
- 3. Jung, J.W. and Lee, S. Anxiolytic effects of quercetin: Involvement of GABAergic system. J. Life Sci. 24(3), 290-296 (2014).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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