Product Data Sheet

Thiocolchicoside

Cat. No.: HY-N0301 CAS No.: 602-41-5

Molecular Formula: $C_{27}H_{33}NO_{10}S$

Molecular Weight: 563.62

Target: **GABA Receptor**

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

-20°C Storage: Powder 3 years

2 years

In solvent -80°C 2 years

> -20°C 1 year

SOLVENT & SOLUBILITY

In Vitro DMSO: 233.33 mg/mL (413.98 mM; Need ultrasonic)

H₂O: 50 mg/mL (88.71 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	1.7742 mL	8.8712 mL	17.7425 mL
	5 mM	0.3548 mL	1.7742 mL	3.5485 mL
	10 mM	0.1774 mL	0.8871 mL	1.7742 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.69 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.69 mM); Clear solution

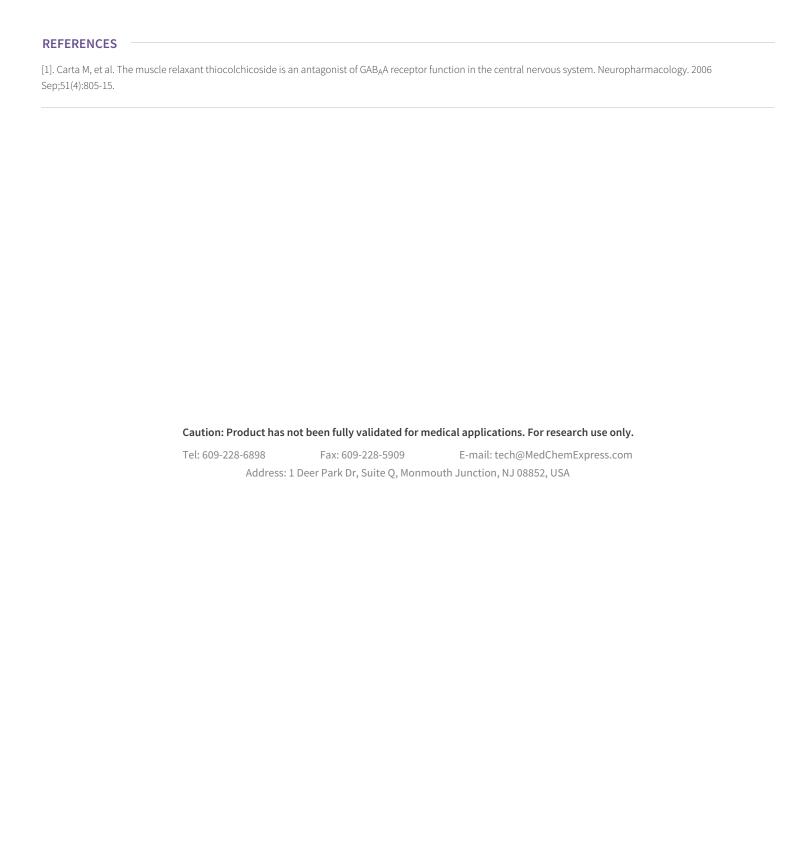
BIOLOGICAL ACTIVITY

Thiocolchicoside is a competitive γ -aminobutyric acid type A (GAB_AA) receptor antagonist and glycine receptor agonist in Description the central nervous system. Thiocolchicoside is a semisynthetic sulfur derivative of colchicoside. Thiocolchicoside is a muscle relaxant and has anti-inflammatory, and analgesic properties^[1].

GAB_AA) receptor; glycine receptor^[1] IC₅₀ & Target

In Vitro Thiocolchicoside $(0.001, 0.1, 1, 10, 100 \mu M)$ reduces the amplitude of eIPSCs in a concentration-dependent manner with this effect being significant at 0.1 μ M and maximal at 10 μ M^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.



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