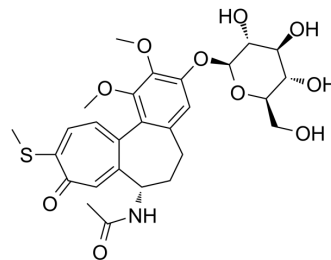


Thiocolchicoside

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		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (443.56 mM; Need ultrasonic)
 H₂O : 50 mg/mL (88.71 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	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

- 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
- 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

Description

Thiocolchicoside is a competitive γ-aminobutyric acid type A (GABA_A) receptor antagonist and glycine receptor agonist in 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].

IC₅₀ & Target

GABA_A receptor; glycine receptor^[1]

In Vitro

Thiocolchicoside (0.001, 0.1, 1, 10, 100 μM) reduces the amplitude of eIPSCs in a concentration-dependent manner with this effect being significant at 0.1 μM and maximal at 10 μM^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Carta M, et al. The muscle relaxant thiolchicoside is an antagonist of GABA_A receptor function in the central nervous system. *Neuropharmacology*. 2006 Sep;51(4):805-15.

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

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