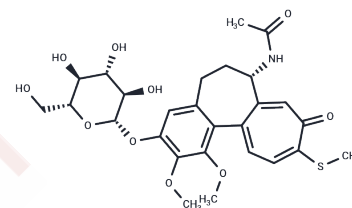


Thiocolchicoside

Chemical Properties

CAS No. : 602-41-5
 Formula: C₂₇H₃₃N₁O₁₀
 Molecular Weight: 563.62
 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	Thiocolchicoside (Thiocolchicine 2-glucoside analog) (Muscoril, Myoril, Neoflax) is a muscle relaxant with anti-inflammatory and analgesic effects. It acts as a competitive GABA _A receptor antagonist and also glycine receptor antagonist with similar potency and nicotinic acetylcholine receptors to a much lesser extent. It has powerful convulsant activity and should not be used in seizure-prone individuals.
Targets(IC50)	GABA Receptor

Solubility Information

Solubility	H ₂ O: 177.4 mM, Sonication is recommended. DMSO: 55 mg/mL (97.58 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.55 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

	1mg	5mg	10mg
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
50 mM	0.0355 mL	0.1774 mL	0.3548 mL

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

Ketenci A, et al. The journal of the Turkish Society of Algology, 2009, 21(3):95-103.

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