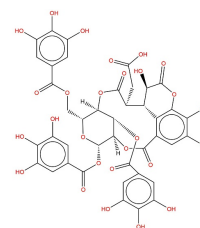


Chebulinic acid

Chemical Properties

CAS No.:	18942-26-2
Formula:	C ₄₁ H ₂₈ O ₂₇
Molecular Weight:	956.68
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Chebulinic acid is a potent inhibitor of <i>M. tuberculosis</i> DNA gyrase. It also can inhibit SMAD-3 phosphorylation and H ⁺ K ⁺ -ATPase activity.
In vitro	Chebulinic acid obviously inhibited HQ/Cu(II)- and H ₂ O ₂ /Cu(II)-mediated pBR322 DNA strand breaks. When MRC-5 cells were treated with HQ/Cu(II), the presence of Chebulinic acid inhibited HQ/Cu(II)-mediated double-strand breaks of genomic DNA [1].
In vivo	Chebulinic acid had no effect on KCl-induced aortic contraction, but irreversibly inhibited the contractile responses to phenylephrine in an apparently non-competitive manner. Chebulinic acid also inhibited contractile responses of rat aorta to 5-hydroxytryptamine and angiotensin II. 3. Chebulinic acid inhibited the binding of [3H]-prazosin to dog aortic microsomal membranes in a concentration-dependent manner with an IC ₅₀ value of 0.34 mmol/L [2].

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.045 mL	5.226 mL	10.453 mL
5 mM	0.209 mL	1.045 mL	2.091 mL
10 mM	0.105 mL	0.523 mL	1.045 mL
50 mM	0.021 mL	0.105 mL	0.209 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Zong-Chun Yi, et al. Chebulinic Acid and Tellimagrandin I Inhibit DNA Strand Breaks by hydroquinone/Cu(II) and H₂O₂/Cu(II), but Potentiate DNA Strand Breaks by H₂O₂/Fe(II). *Toxicol In Vitro*. Jun 2009; 23 (4), 667-73
2. Y Y Guan, et al. In Vitro Inhibitory Effects of Chebulinic Acid on the Contractile Responses of Cardiovascular Muscles. *Clin Exp Pharmacol Physiol*. Aug 1996 23 (8), 747-50
3. Mishra V et al. Anti-secretory and cyto-protective effects of chebulinic acid isolated from the fruits of Terminalia chebula on gastric ulcers. *Phytomedicine*. 2013 Apr 15;20(6):506-11.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481