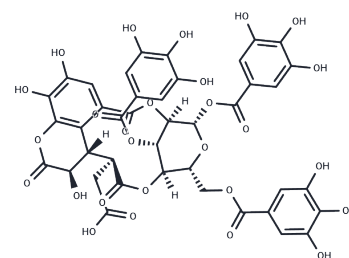


Chebulinic acid

Chemical Properties

CAS No. :	18942-26-2
Formula:	C ₄₁ H ₃₂ O ₂₇
Molecular Weight:	956.68
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Chebulinic acid is a potent inhibitor of M. tuberculosis DNA gyrase. It also can inhibit SMAD-3 phosphorylation and H ⁺ K ⁺ -ATPase activity.
Targets(IC50)	ATPase,Proton pump,DNA/RNA Synthesis,Antibacterial,TGF-beta/Smad
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: 27.5 mg/mL (28.75 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0453 mL	5.2264 mL	10.4528 mL
5 mM	0.2091 mL	1.0453 mL	2.0906 mL
10 mM	0.1045 mL	0.5226 mL	1.0453 mL
50 mM	0.0209 mL	0.1045 mL	0.2091 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.

Reference

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 36 Washington Street, Wellesley Hills, MA 02481