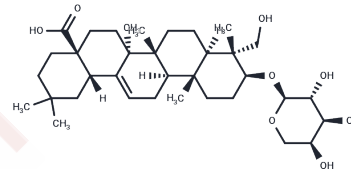


## Cauloside A

## Chemical Properties

CAS No. :	17184-21-3
Formula:	C <sub>35</sub> H <sub>56</sub> O <sub>8</sub>
Molecular Weight:	604.81
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Cauloside A is a bioactive triterpenoid saponin derived from <i>Cimicifuga thalictroides</i> with multifunctional anti-inflammatory, antimicrobial, cytotoxic, hemolytic, and molluscicidal activities. Cauloside A induces concentration-dependent and time-dependent mitochondriotoxic actions, rapidly increasing the cellular respiration rate followed by a dramatic decline within minutes. Mechanistic studies show Cauloside A disrupts mitochondrial membrane integrity, impairing mitochondrial function and contributing to potent biological effects relevant to therapeutic development.
Targets(IC50)	Antifungal

## Solubility Information

Solubility	DMSO: 80 mg/mL (132.27 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6534 mL	8.2671 mL	16.5341 mL
5 mM	0.3307 mL	1.6534 mL	3.3068 mL
10 mM	0.1653 mL	0.8267 mL	1.6534 mL
50 mM	0.0331 mL	0.1653 mL	0.3307 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

Nam Hee Choi, et al. Antifungal activity of sterols and dipsacus saponins isolated from Dipsacus asper roots against phytopathogenic fungi. Pestic Biochem Physiol. 2017 Sep;141:103-108.

Sandipan Datta, et al. Toxins in botanical dietary supplements: blue cohosh components disrupt cellular respiration and mitochondrial membrane potential. J Nat Prod. 2014 Jan 24;77(1):111-7.

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