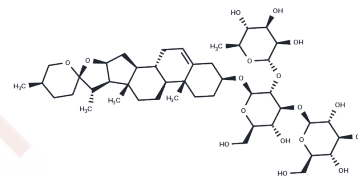


## Gracillin

## Chemical Properties

CAS No. :	19083-00-2
Formula:	C <sub>45</sub> H <sub>72</sub> O <sub>17</sub>
Molecular Weight:	885.04
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	Gracillin can induce cell cycle arrest, oxidative stress, and apoptosis in HL60 cells, and has the potential to be developed as an antitumor agent. Gracillin can be selected as lead compounds for the development of new drugs against I. multifiliis.
Targets(IC50)	Apoptosis, Cell Cycle Arrest, Autophagy

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble) DMSO: 255 mg/mL (288.12 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.5 mg/mL (1.69 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	1.1299 mL	5.6495 mL	11.2989 mL
5 mM	0.226 mL	1.1299 mL	2.2598 mL
10 mM	0.113 mL	0.5649 mL	1.1299 mL
50 mM	0.0226 mL	0.113 mL	0.226 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

Chen CR,et al.Gracillin induces apoptosis in HL60 human leukemic cell line via oxidative stress and cell cycle arrest of G1. Pharmazie. 2015 Mar;70(3):199-204.

Zheng W,et al.Antiparasitic efficacy of Gracillin and Zingibersis newsaponin from Costus speciosus (Koen ex. Retz) Sm. against Ichthyophthirius multifiliis.Parasitology. 2015 Mar;142(3):473-9.

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