

## Gitogenin

## Chemical Properties

CAS No. : 511-96-6

Formula: C<sub>27</sub>H<sub>44</sub>O<sub>4</sub>

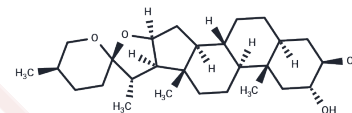
Molecular Weight: 432.64

Storage:

Store at low temperature, Keep away from direct sunlight, Store under nitrogen

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	1. Gitogenin, tigogenin, and solasodine are novel selective inhibitors of UGT1A4, and do not inhibit the activities of major human CYP isoforms. 2. Gitogenin and (25S)-5 $\alpha$ -furastan-3 $\beta$ , 22, 26-triol are the inhibitors of enzyme $\alpha$ -glucosidase with IC <sub>50</sub> values of 37.2 $\pm$ 0.18 and 33.5 $\pm$ 0.22 $\mu$ M, respectively. 3. Gitogenin shows moderate stimulation of release activity on growth hormone from rat pituitary cells.
Targets(IC <sub>50</sub> )	Glucosidase, glycosidase, UGT

## Solubility Information

Solubility	DMSO: 4.14 mg/mL (9.57 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 0.41 mg/mL (0.95 mM), Suspension. <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

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	1mg	5mg	10mg
1 mM	2.3114 mL	11.557 mL	23.1139 mL
5 mM	0.4623 mL	2.3114 mL	4.6228 mL
10 mM	0.2311 mL	1.1557 mL	2.3114 mL
50 mM	0.0462 mL	0.2311 mL	0.4623 mL

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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

Shim S , Lee E , Kim J , et al. Rat Growth-Hormone Release Stimulators from Fenugreek Seeds[J]. Chemistry & Biodiversity, 2008, 5(9):1753-1761.

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