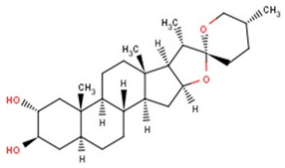
Data Sheet (Cat.No.T3S0860)

TargetMol
A DRUG SCREENING EXPERT

Gitogenin

Chemical Properties



CAS No.:	511-96-6
Formula:	C27H44O4
Molecular Weight:	432.64
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

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)-5α-furastan-3β, 22, 26-triol are the inhibitors of enzyme α-glucosidase with IC50 values of 37.2±0.18 and 33.5±0.22 uM, respectively.3. Gitogenin shows moderate stimulation of release activity on growth hormone from rat pituitary cells.

Solubility Information

Solubility	DMSO: Soluble Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.311 mL	11.557 mL	23.114 mL
5 mM	0.462 mL	2.311 mL	4.623 mL
10 mM	0.231 mL	1.156 mL	2.311 mL
50 mM	0.046 mL	0.231 mL	0.462 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

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

2. Xu M, et al. Drug interaction study of natural steroids from herbs specifically toward human UDP-glucuronosyltransferase (UGT) 1A4 and their quantitative structure activity relationship (QSAR) analysis for prediction. Pharmacol Res. 2016 Aug;110:139-150.

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