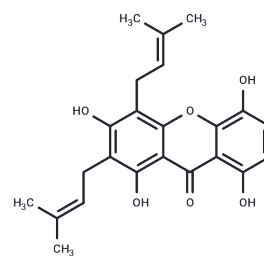


Gartanin

Chemical Properties

CAS No. :	33390-42-0
Formula:	C ₂₃ H ₂₄ O ₆
Molecular Weight:	396.43
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	Gartanin is an androgen receptor degradation enhancer, it is also a potential neuroprotective agent against glutamate-induced oxidative injury partially through increasing Nrf-2-independed HO-1 and AMPK/SIRT1/PGC-1 α signaling pathways.
Targets(IC50)	Bcl-2 Family,Caspase,Autophagy,Antifungal,JNK
In vitro	The interaction of Gartanin with the ligand-binding domain was characterized using a fluorescence polarization cell-free assay and cell-based FRET assay. Western blot analysis identified modulation of ER stress markers (BiP, PERK, IRE1, and CHOP) along with androgen receptor degradation. A computation simulation was performed to identify possible orientations of Gartanin with the ligand-binding domain. Utilizing a cell-free and cell-based FRET assays Gartanin was found to interact with the ligand-binding domain through a solely antagonist interaction. Interestingly, inhibition of CHOP, a critical component of the ER stress pathway, was observed to stabilize AR[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (126.13 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	2.5225 mL	12.6126 mL	25.2251 mL
5 mM	0.5045 mL	2.5225 mL	5.045 mL
10 mM	0.2523 mL	1.2613 mL	2.5225 mL
50 mM	0.0505 mL	0.2523 mL	0.5045 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

Liu, Z. , et al. "The Effect of Gartanin, a Naturally Occurring Xanthone in Mangosteen Juice, on the mTOR Pathway, Autophagy, Apoptosis, and the Growth of Human Urinary Bladder Cancer Cell Lines." Nutrition & Cancer 65.sup1 (2013):68-77.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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