

Timosaponin AIII

Chemical Properties

CAS No. : 41059-79-4

Formula: C₃₉H₆₄O₁₃

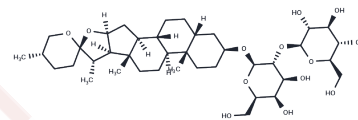
Molecular Weight: 740.92

Keep away from direct sunlight, Keep away from moisture

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	Timosaponin AIII (Timosaponin A3) induces autophagy in HeLa cells followed by apoptotic cell death (IC ₅₀ : 10 μM). The Timosaponin AIII cellular response is mediated via inhibition of mTORC1 and induction of ER stress (IC ₅₀ : 2.5 μM, BT474 cells; 6 μM, MDAMB231). The Timosaponin AIII pro-apoptotic response is selective for tumor cells over normal cells but autophagy is induced in both.
Targets(IC ₅₀)	Cholinesterase (ChE), mTOR

Solubility Information

Solubility	DMSO: 250 mg/mL (337.42 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	1.3497 mL	6.7484 mL	13.4967 mL
5 mM	0.2699 mL	1.3497 mL	2.6993 mL
10 mM	0.135 mL	0.6748 mL	1.3497 mL
50 mM	0.027 mL	0.135 mL	0.2699 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

Wu ZT, et al. Acta Pharmacol Sin. 2014 Sep;35(9):1188-98.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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