

Eclalbasaponin I

Chemical Properties

CAS No. : 158511-59-2

Formula: C₄₂H₆₈O₁₄

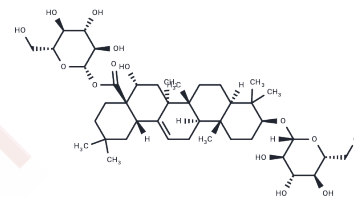
Molecular Weight: 796.98

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	Eclalbasaponin I has anti-oxidative, and antitumor activities, it reduces oxidative stress-induced neural cell death by autophagy activation, it can dose-dependently inhibit the proliferation of hepatoma cell smmc-7721 with the IC(50) value of 111.1703 ug/ml.
Targets(IC50)	Others
In vitro	Four fractions (water, 30% ethanol, 60% ethanol and 90% ethanol) were obtained. Four compounds, wedelolactone (I), Eclalbasaponin I (II), luteolin (III) and luteolin-7-O-glucoside (IV) were purified and their structures were identified by the interpretation of spectroscopic analyses including MS, (1)H and (13)C NMR. Antitumor activities of extracts (total fraction), four fractions and the isolated compounds were assessed using hepatoma cell smmc-7721 as an in vitro assay system. The 30% ethanol fraction and Eclalbasaponin I dose-dependently inhibited the proliferation of hepatoma cell smmc-7721 with IC(50) values of 74.2399 and 111.1703 µg/ml, respectively, more strongly compared with 5-fluorouracil positive control group with the IC(50) value of 195.3131 µg/ml. Antitumor activities of other fractions and compounds were lower than positive control.

Solubility Information

Solubility	DMSO: 27.5 mg/mL (34.51 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	1.2547 mL	6.2737 mL	12.5474 mL
5 mM	0.2509 mL	1.2547 mL	2.5095 mL
10 mM	0.1255 mL	0.6274 mL	1.2547 mL
50 mM	0.0251 mL	0.1255 mL	0.2509 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

Eclipta prostrata L. phytochemicals: isolation, structure elucidation, and their antitumor activity. Food Chem Toxicol. 2012 Nov;50(11):4016-22.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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