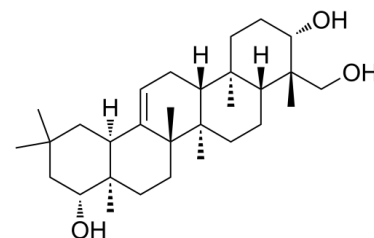


Data Sheet

Product Name:	Soyasapogenol B
Cat. No.:	CS-0032502
CAS No.:	595-15-3
Molecular Formula:	C ₃₀ H ₅₀ O ₃
Molecular Weight:	458.72
Target:	Apoptosis; Autophagy
Pathway:	Apoptosis; Autophagy
Solubility:	DMSO : 33.33 mg/mL (ultrasonic;warming;heat to 60°C)



BIOLOGICAL ACTIVITY:

Soyasapogenol B is a component of soy that has oral activity. Soyasapogenol B promotes **autophagy** and **apoptosis**.

Soyasapogenol B has anti-inflammatory, antioxidant and antitumor activities^{[1][2][3]}. *In Vitro*:Soyasapogenol B (5-20 μM, 48 h) can reduce tumor cell viability and promote apoptosis and autophagy of colorectal cancer cells through endoplasmic reticulum stress^[1].

Soyasapogenol B (1-10 μM, 48 h) shows anti-growth and anti-metastasis activity in clear cell renal cell carcinoma (ccRCC)^[2].

In Vivo:Soyasapogenol B (25 or 50 mg/kg/day, intraperitoneal injection) can inhibit tumor growth, and promote apoptosis and autophagy in a mouse tumor model of colorectal cancer^[1].

Soyasapogenol B (10 mg/kg, oral) alleviates memory impairment induced by lipopolysaccharide (HY-D1056) in mice by regulating the expression of BDNF mediated by NF-κB^[3].

References:

[1]. Wang L, et al. Endoplasmic reticulum stress triggered by Soyasapogenol B promotes apoptosis and autophagy in colorectal cancer. Life Sci. 2019 Feb 1;218:16-24.

[2]. Wang L, et al. Soyasapogenol B exhibits anti-growth and anti-metastatic activities in clear cell renal cell carcinoma. Naunyn Schmiedebergs Arch Pharmacol. 2019 May;392(5):551-563.

[3]. Lee HJ, et al. Soyasapogenol B and Genistein Attenuate Lipopolysaccharide-Induced Memory Impairment in Mice by the Modulation of NF-κB-Mediated BDNF Expression. J Agric Food Chem. 2017 Aug 16;65(32):6877-6885.

CAIndexNames:

Olean-12-ene-3,22,23-triol, (3β,4β,22β)-

SMILES:

C[C@]12[C@]3(C([C@@]4([H])[C@](C)([C@@H](CC(C)(C)C4)O)CC3)=CC[C@]1([H])[C@@]5([C@@]([C@](C)([C@@H](O)CC5)CO)([H])CC2)C

Caution: Product has not been fully validated for medical applications. For research use only.

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