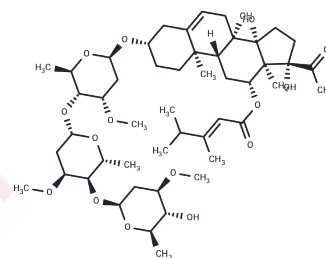


Qingyangshengenin B

Chemical Properties

CAS No. :	106758-54-7
Formula:	C49H78O16
Molecular Weight:	923.13
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	Qingyangshengenin B (Otophyllaside B) is a C-21 steroidal glycoside isolated from Qingyangshen. Qingyangshengenin B protects against A β toxicity, which decreases A β deposition by decreasing the expression of A β at the mRNA level. Qingyangshengenin B has antiepileptic and anti-aging effects, it can extend lifespan, increase heat stress-resistance, delay body paralysis, and increase the chemotaxis response in <i>C. elegans</i> models of Alzheimer's disease. Otophyllaside B can suppress the seizure-like locomotor activity caused by pentylentetrazole in zebrafish.
Targets(IC50)	Beta Amyloid
In vitro	Otophyllaside B (Ot B) could modestly extend the lifespan of <i>C. elegans</i> , delay the age-related decline of body movement and improve the stress resistance. Further investigating the molecular mechanism of lifespan extension effect revealed that Ot B could activate the FOXO transcription factor DAF-16. Ot B could not further extend the lifespan of long-lived mutant of insulin/IGF-1-like receptor (<i>daf-2</i>). In addition, Ot B also requires SIR-2.1 and CLK-1 which is an enzyme in ubiquinone synthesis, for lifespan extension.

Solubility Information

Solubility	DMSO: 5 mg/mL (5.42 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (1.08 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0833 mL	5.4164 mL	10.8327 mL
5 mM	0.2167 mL	1.0833 mL	2.1665 mL
10 mM	0.1083 mL	0.5416 mL	1.0833 mL
50 mM	0.0217 mL	0.1083 mL	0.2167 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

Yang, Jie, Wan, et al. The Lifespan-Promoting Effect of Otophyllouside B in *Caenorhabditis elegans*[J]. *Natural Products and Bioprospecting*, 2015, 5(4):177-183.

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