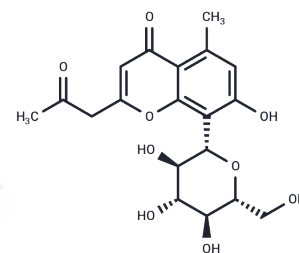


Aloesin

Chemical Properties

CAS No. :	30861-27-9
Formula:	C ₁₉ H ₂₂ O ₉
Molecular Weight:	394.37
Storage:	Keep away from moisture, 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	Aloesin is a C-glycosylated chromone compound found in aloe (Liliaceae) that inhibits tyrosinase (IC ₅₀ = 0.9 mM), an enzyme responsible for catalyzing the first step of the conversion of tyrosine to melanin.
Targets(IC ₅₀)	Apoptosis, Tyrosinase
In vivo	Aloesin prevents not only UV-B-induced immune suppression, but also could be a positive pigment-altering agent for cosmetic application. In preclinical study, aloe extract was investigated using phagocytosis and nitroblue tetrazolium chloride (NBT) reduction in adult bronchial asthma.

Solubility Information

Solubility	DMSO: 250 mg/mL (633.92 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: 2 mg/mL (5.07 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	2.5357 mL	12.6784 mL	25.3569 mL
5 mM	0.5071 mL	2.5357 mL	5.0714 mL
10 mM	0.2536 mL	1.2678 mL	2.5357 mL
50 mM	0.0507 mL	0.2536 mL	0.5071 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

Yagi A , Takeo S . Anti-inflammatory Constituents, Aloesin and Aloemannan in Aloe Species and Effects of Tanshinon VI in Salvia miltiorrhiza on Heart[J]. YAKUGAKU ZASSHI, 2003, 123(7):517-532.

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