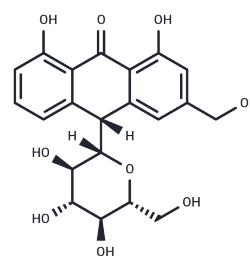


Aloin B

Chemical Properties

CAS No. :	28371-16-6
Formula:	C ₂₁ H ₂₂ O ₉
Molecular Weight:	418.39
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	Aloin B (Isobarbaloin) is an isomer of aloin.1. The extract of <i>A. vera</i> and its active ingredient aloin cause melanin aggregation leading to skin lightening via alpha adrenergic receptor stimulation, the result opens new vistas for the use of <i>A. vera</i> regarding its clinical application as a new nontoxic melanolytic agent for the treatment of hyperpigmentation. 2. Dietary supplementation of aloe components (aloin, aloesin and aloe-gel) can ameliorate intestinal inflammatory responses in a 3% dextran sulfate sodium (DSS)-induced ulcerative colitis rat model, in particular, aloesin is the most potent inhibitor.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 45 mg/mL (107.56 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 (4.78 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	2.3901 mL	11.9506 mL	23.9011 mL
5 mM	0.478 mL	2.3901 mL	4.7802 mL
10 mM	0.239 mL	1.1951 mL	2.3901 mL
50 mM	0.0478 mL	0.239 mL	0.478 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

Brown P N , Yu R , Kuan C H , et al. Determination of Aloin A and Aloin B in Aloe vera Raw Materials and Finished Products by High-Performance Liquid Chromatography: Single-Laboratory Validation[J]. Journal of AOAC International, 2014, 97(5):1323-1328.

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