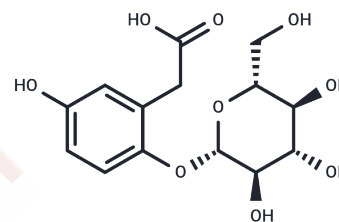


Phaseoloidin

Chemical Properties

CAS No. :	118555-82-1
Formula:	C ₁₄ H ₁₈ O ₉
Molecular Weight:	330.29
Storage:	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	Phaseoloidin, a homogentisic acid glucoside from <i>Nicotiana attenuata</i> trichomes, contributes to the plant's resistance against lepidopteran herbivores.
Targets(IC50)	Others, Complement System
In vivo	Phaseoloidin contributes to the plant's resistance against lepidopteran herbivores[1].
Animal Research	This glucoside was reported originally from the seeds of <i>Entada phaseoloides</i> , and this is the first report of its occurrence in a Solanaceous plant. Artificial diet feeding bioassays with <i>Manduca sexta</i> and <i>Spodoptera littoralis</i> larvae, two important herbivores of <i>N. attenuata</i> , The ingestion of phaseoloidin negatively influenced caterpillar performance. This effect was more pronounced for the generalist, <i>S. littoralis</i> , than for the specialists, <i>M. sexta</i> [1].

Solubility Information

Solubility	DMSO: 55 mg/mL (166.52 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 (6.06 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	3.0276 mL	15.1382 mL	30.2764 mL
5 mM	0.6055 mL	3.0276 mL	6.0553 mL
10 mM	0.3028 mL	1.5138 mL	3.0276 mL
50 mM	0.0606 mL	0.3028 mL	0.6055 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

Weinhold A, Shaker K, Wenzler M, et al. Phaseoloidin, a homogentisic acid glucoside from *Nicotiana attenuata* trichomes, contributes to the plant's resistance against lepidopteran herbivores[J]. *J Chem Ecol.* 2011 Oct;37(10): 1091-8

Xing S, Wang M, Peng Y, et al. Intestinal bacterial metabolism and anti-complement activities of three major components of the seeds of *Entada phaseoloides*[J]. *Journal of Natural Medicines*, 2015, 69(2):171-177.

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