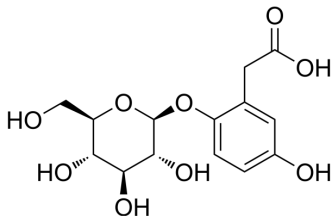
Phaseoloidin

Cat. No.:	HY-N7400
CAS No.:	118555-82-1
Molecular Formula:	$C_{14}H_{18}O_9$
Molecular Weight:	330.29
Target:	Complement System
Pathway:	Immunology/Inflammation
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (302.76 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (7.57 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (7.57 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (7.57 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Phaseoloidin is a homogentisic acid glucoside from Nicotiana attenuata trichomes and contributes to the plant's resistance against lepidopteran herbivores. Phaseoloidin reduces larval growth of the specialist larvae Manduca sexta and the generalist larvae Spodoptera littoralis[1]. Phaseoloidin has anti-complement activitie[2].

REFERENCES

[1]. Alexander Weinhold, et al. Phaseoloidin, a homogentisic acid glucoside from Nicotiana attenuata trichomes, contributes to the plant's resistance against lepidopteran

herbivores. J Chem Ecol. 2011 Oct;37(10):1091-8.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA