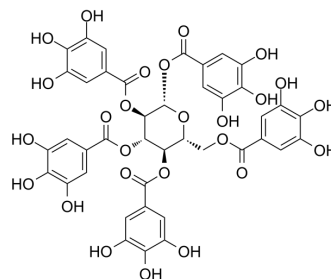


Pentagalloylglucose

Cat. No.:	HY-N0527		
CAS No.:	14937-32-7		
Molecular Formula:	C ₄₁ H ₃₂ O ₂₆		
Molecular Weight:	940.68		
Target:	Parasite; RABV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (106.31 mM; Need ultrasonic)
 H₂O : 6 mg/mL (6.38 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		1.0631 mL	5.3153 mL	10.6306 mL
	5 mM		0.2126 mL	1.0631 mL	2.1261 mL
	10 mM		0.1063 mL	0.5315 mL	1.0631 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (2.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (2.66 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (2.66 mM); Clear solution
- Add each solvent one by one: PBS
Solubility: 1.43 mg/mL (1.52 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Pentagalloylglucose (Penta-O-galloyl-β-D-glucose) is a gallotannin isolated from various plants. It suppressed interleukin (IL)-4 induced signal pathway in B cell, and inhibited IgE production partially caused by increasing a population of Treg cells in conjunction with Treg-inducing factors. Pentagalloylglucose possesses significant anti-rabies virus (RABV) activity.

CUSTOMER VALIDATION

- Gastroenterology. 2023 Jun;164(7):1232-1247.
- Cancer Lett. 2022 Aug 1;215851.
- J Virol. 2019 Aug 28;93(18):e00539-19.
- Viruses. 2018 Apr 17;10(4). pii: E201.
- J Pharmacol Sci. 26 August 2021.

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- [1]. Viswanatha GL, et al. Alleviation of transient global ischemia/reperfusion-induced brain injury in rats with 1,2,3,4,6-penta-O-galloyl- β -D-glucopyranose isolated from *Mangifera indica*. *Eur J Pharmacol*. 2013 Nov 15;720(1-3):286-93.
- [2]. Kim YH, et al. 1,2,3,4,6-penta-O-galloyl- β -D-glucopyranose increases a population of T regulatory cells and inhibits IgE production in ovalbumin-sensitized mice. *Int Immunopharmacol*. 2015 May;26(1):30-6.
- [3]. Ahn D, et al. The Longevity Properties of 1,2,3,4,6-Penta-O-Galloyl- β -D-Glucose from *Curcuma longa* in *Caenorhabditis elegans*. *Biomol Ther (Seoul)*. 2013 Nov;21(6):442-6.
- [4]. Tu Z, et al. Pentagalloylglucose Inhibits the Replication of Rabies Virus via Mediation of the miR-455/SOCS3/STAT3/IL-6 Pathway. *J Virol*. 2019 Aug 28;93(18). pii: e00539-19.
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Caution: Product has not been fully validated for medical applications. For research use only.

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