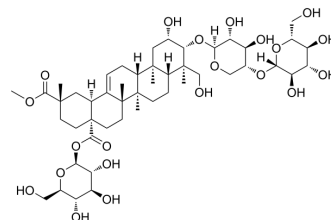


Esculentoside H

Cat. No.:	HY-N2205
CAS No.:	66656-92-6
Molecular Formula:	C ₄₈ H ₇₆ O ₂₁
Molecular Weight:	989.1
Target:	NF-κB; JNK
Pathway:	NF-κB; MAPK/ERK Pathway
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 (101.10 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	1.0110 mL	5.0551 mL	10.1102 mL
		5 mM	0.2022 mL	1.0110 mL	2.0220 mL
10 mM		0.1011 mL	0.5055 mL	1.0110 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 4.17 mg/mL (4.22 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (2.53 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (2.53 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Esculentoside H (EsH) is a saponin isolated from the root extract of perennial plant <i>Phytolacca esculenta</i> ^[1] . Esculentoside H (EH) has anti-tumor activity, the mechanism is related to the capacity for TNF release ^[2] . Esculentoside H (EsH) suppresses colon cancer cell migration through blockage of the JNK1/2 and NF-κB signaling-mediated matrix metalloproteinases-9 (MMP-9) expression ^[1] .
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REFERENCES

[1]. Ha SH, et al. Esculentoside H inhibits colon cancer cell migration and growth through suppression of MMP-9 gene expression via NF-κB signaling pathway. *J Cell*

Biochem. 2019 Jun;120(6):9810-9819.

[2]. Hu ZL, et al. Effect of esculentoside H on release of tumor necrosis factor from mouse peritoneal macrophages. Zhongguo Yao Li Xue Bao. 1993 Nov;14(6):550-2.

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

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