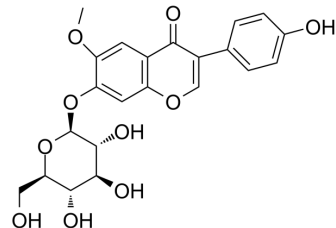


Glycitin

Cat. No.:	HY-N0012		
CAS No.:	40246-10-4		
Molecular Formula:	C ₂₂ H ₂₂ O ₁₀		
Molecular Weight:	446.4		
Target:	Influenza Virus; Bacterial		
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 (224.01 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.2401 mL	11.2007 mL	22.4014 mL
	5 mM	0.4480 mL	2.2401 mL	4.4803 mL
	10 mM	0.2240 mL	1.1201 mL	2.2401 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 (5.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Glycitin is a natural isoflavone isolated from legumes; promotes the proliferation of bone marrow stromal cells and osteoblasts and suppresses bone turnover. Glycitin is antibacterial, antiviral and estrogenic.

REFERENCES

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- [2]. Li XH, et al. Effect of daidzin, genistin, and glycitin on osteogenic and adipogenic differentiation of bone marrow stromal cells and adipocytic transdifferentiation of osteoblasts. Acta Pharmacol Sin. 2005 Sep;26(9):1081-6.
- [3]. Zhang L, et al. Glycitin regulates osteoblasts through TGF- β or AKT signaling pathways in bone marrow stem cells. Exp Ther Med. 2016 Nov;12(5):3063-3067.
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Caution: Product has not been fully validated for medical applications. For research use only.

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