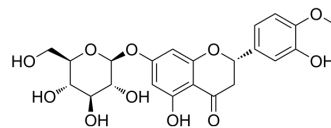


Hesperetin 7-O-glucoside

Cat. No.:	HY-125130
CAS No.:	31712-49-9
Molecular Formula:	C ₂₂ H ₂₄ O ₁₁
Molecular Weight:	464.42
Target:	HMG-CoA Reductase (HMGCR); Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (53.83 mM); ultrasonic and warming and heat to 80°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1532 mL	10.7661 mL	21.5322 mL
		5 mM	0.4306 mL	2.1532 mL	4.3064 mL
		10 mM	0.2153 mL	1.0766 mL	2.1532 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: ≥ 2.08 mg/mL (4.48 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.48 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Hesperetin 7-O-glucoside is produced by the enzymatic conversion of Hesperidin. Hesperetin 7-O-glucoside is a potent human HMG-CoA reductase inhibitor and also effectively inhibits the growth of <i>Helicobacter pylori</i> . Antihypertensive effect [1][2].
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REFERENCES

- [1]. Young-Su Lee, et al. Enzymatic Bioconversion of Citrus Hesperidin by *Aspergillus Sojae* Naringinase: Enhanced Solubility of hesperetin-7-O-glucoside With in Vitro Inhibition of Human Intestinal Maltase, HMG-CoA Reductase, and Growth of *Helicobacter Pylori*. *Food Chem.* 2012 Dec 15;135(4):2253-9.
- [2]. Lucas Actis-Goretta, et al. Gastrointestinal Absorption and Metabolism of hesperetin-7-O-rutinoside and hesperetin-7-O-glucoside in Healthy Humans. *Mol Nutr Food*

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

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