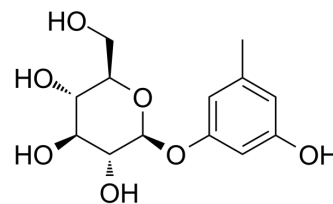


## Orcinol glucoside

Cat. No.:	HY-N0008
CAS No.:	21082-33-7
Molecular Formula:	C <sub>13</sub> H <sub>18</sub> O <sub>7</sub>
Molecular Weight:	286.28
Target:	Wnt
Pathway:	Stem Cell/Wnt
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (436.64 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	3.4931 mL	17.4654 mL	34.9308 mL
			5 mM	0.6986 mL	3.4931 mL	6.9862 mL
10 mM	0.3493 mL	1.7465 mL	3.4931 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 (7.27 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.27 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.27 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	Orcinol glucoside (OG) is an active constituent isolated from <i>Curculigo orchioides</i> , with antidepressant effects. Orcinol glucoside facilitates the shift of MSC fate to osteoblast and prevents adipogenesis via Wnt/β-catenin signaling pathway <sup>[1][2]</sup> .
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### REFERENCES

[1]. Ge JF, et al. Orcinol glucoside produces antidepressant effects by blocking the behavioural and neuronal deficits caused by chronic stress. *Eur Neuropsychopharmacol.* 2014 Jan;24(1):172-80.

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[2]. Zhou X, et al. Orcinol glucoside facilitates the shift of MSC fate to osteoblast and prevents adipogenesis via Wnt/ $\beta$ -catenin signaling pathway. Drug Des Devel Ther. 2019 Aug 5;13:2703-2713.

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

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