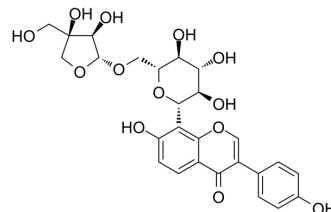


## Mirificin

Cat. No.:	HY-N2134
CAS No.:	103654-50-8
Molecular Formula:	C <sub>26</sub> H <sub>28</sub> O <sub>13</sub>
Molecular Weight:	548.49
Target:	Tyrosinase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (91.16 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.8232 mL	9.1159 mL	18.2319 mL
				5 mM	0.3646 mL	1.8232 mL	3.6464 mL
				10 mM	0.1823 mL	0.9116 mL	1.8232 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: ≥ 1.25 mg/mL (2.28 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (2.28 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (2.28 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Mirificin (Puerarin apioside) is a isoflavone in Puerariae Lobatae Radix. Mirificin inhibits tyrosinase (TYR) with an IC <sub>50</sub> of 12.66 μM <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC50: 12.66 μM (TYR) <sup>[1]</sup>

### REFERENCES

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[1]. Liu H, et al. Enzyme-Site Blocking Combined with Optimization of Molecular Docking for Efficient Discovery of Potential Tyrosinase Specific Inhibitors from Puerariae lobatae Radix. *Molecules*. 2018 Oct 11;23(10).

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

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