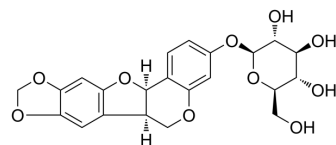


## Trifolirhizin

Cat. No.:	HY-N0616
CAS No.:	6807-83-6
Molecular Formula:	C <sub>22</sub> H <sub>22</sub> O <sub>10</sub>
Molecular Weight:	446.4
Target:	Tyrosinase; TNF Receptor
Pathway:	Metabolic Enzyme/Protease; Apoptosis
Storage:	-20°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 (224.01 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	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	1. 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				
	2. 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				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.60 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Trifolirhizin is a pterocarpan flavonoid isolated from the roots of <i>Sophora flavescens</i> . Trifolirhizin possesses potent tyrosinase inhibitory activity with an IC <sub>50</sub> of 506 μM <sup>[1]</sup> . Trifolirhizin exhibits potential anti-inflammatory and anticancer activities <sup>[2]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 506 μM (tyrosinase) <sup>[1]</sup>

### REFERENCES

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[1]. Hyun SK, et al. Inhibitory effects of kurarinol, kuraridinol, and trifolirhizin from *Sophora flavescens* on tyrosinase and melanin synthesis. *Biol Pharm Bull.* 2008 Jan;31(1):154-8.

[2]. Zhou H, et al. Anti-Inflammatory and antiproliferative activities of trifolirhizin, a flavonoid from *Sophora flavescens* roots. *J Agric Food Chem.* 2009 Jun 10;57(11):4580-5.

[3]. Hyun SK, et al. Inhibitory effects of kurarinol, kuraridinol, and trifolirhizin from *Sophora flavescens* on tyrosinase and melanin synthesis. *Biol Pharm Bull.* 2008 Jan;31(1):154-8.

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

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