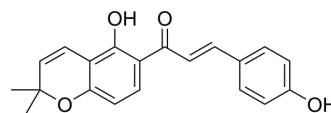


## 4-HydroxyLonchocarpin

Cat. No.:	HY-N2208
CAS No.:	56083-03-5
Molecular Formula:	C <sub>20</sub> H <sub>18</sub> O <sub>4</sub>
Molecular Weight:	322.36
Target:	p38 MAPK
Pathway:	MAPK/ERK Pathway
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 (155.11 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	3.1021 mL	15.5106 mL	31.0212 mL
		5 mM	0.6204 mL	3.1021 mL	6.2042 mL
		10 mM	0.3102 mL	1.5511 mL	3.1021 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<p>1. Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: 2.5 mg/mL (7.76 mM); Clear solution; Need ultrasonic</p> <p>2. Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.76 mM); Clear solution; Need ultrasonic</p>				

### BIOLOGICAL ACTIVITY

Description	4-HydroxyLonchocarpin is a chalcone compound from an extract of <i>Psoralea corylifolia</i> . 4-HydroxyLonchocarpin increases phosphorylation of p38 MAPK, JNK and ERK. 4-HydroxyLonchocarpin has diverse pharmacological activities, including antibacterial, antifungal, anticancer, antireverse transcriptase, antitubercular, antimalarial, anti-inflammatory and antioxidant activities <sup>[1]</sup> .
-------------	---

### CUSTOMER VALIDATION

- Toxicol Lett. 2023 Aug 18;S0378-4274(23)00244-8.

---

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

---

[1]. Lim J, et al. Antimelanogenic effect of 4-hydroxylonchocarpin through the inhibition of tyrosinase-related proteins and MAPK phosphatase. *Exp Dermatol*. 2016 Jul;25(7):574-6.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA