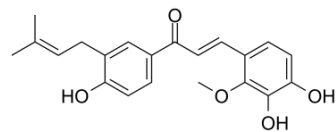


## Licochalcone D

Cat. No.:	HY-N4187
CAS No.:	144506-15-0
Molecular Formula:	C <sub>21</sub> H <sub>22</sub> O <sub>5</sub>
Molecular Weight:	354.4
Target:	NF-κB
Pathway:	NF-κB
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 (352.71 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.8217 mL	14.1084 mL	28.2167 mL
				5 mM	0.5643 mL	2.8217 mL	5.6433 mL
				10 mM	0.2822 mL	1.4108 mL	2.8217 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 (5.87 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.87 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	Licochalcone D, a flavonoid compound mainly existing in the root of Glycyrrhiza inflata, is a potent inhibitor of NF-kappaB (NF-κB) p65. Licochalcone D possesses antioxidant, anti-inflammatory, anti-cancer properties <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	p65

### REFERENCES

[1]. Furusawa J, et al. Glycyrrhiza inflata-derived chalcones, Licochalcone A, Licochalcone B and Licochalcone D, inhibit phosphorylation of NF-kappaB p65 in LPS signaling pathway. Int Immunopharmacol. 2009 Apr;9(4):499-507.

**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