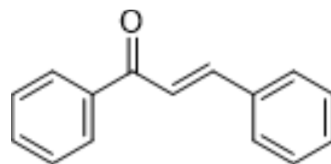


## Chalcone

<b>Cat. No.:</b>	HY-121054		
<b>CAS No.:</b>	94-41-7		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>12</sub> O		
<b>Molecular Weight:</b>	208.26		
<b>Target:</b>	Bacterial; Parasite		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (480.17 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.8017 mL	24.0085 mL	48.0169 mL
	5 mM	0.9603 mL	4.8017 mL	9.6034 mL
	10 mM	0.4802 mL	2.4008 mL	4.8017 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Chalcone is isolated from *Glycyrrhiza uralensis* and used to synthesize chalcone derivatives. Chalcone derivatives possess varied biological and pharmacological activity, including anti-inflammatory, antioxidative, antibacterial, anticancer, and anti-parasitic activities<sup>[1]</sup>.

#### In Vitro

Chalcone derivatives are synthesized by Claisen-Shmidt base-catalyzed condensation of appropriate aromatic ketones or substituted aromatic ketones with benzaldehydes or substituted benzaldehydes<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Shailendra Mandge, et al. Synthesis and Characterization of Some Chalcone Derivatives. Trends in Applied Sciences Research Volume 2 (1): 52-56, 2007

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

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