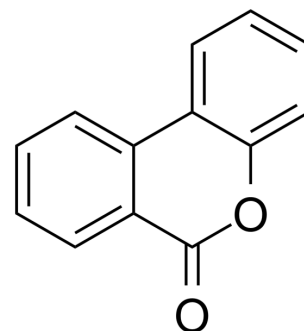


## 3,4-Benzocoumarin

<b>Cat. No.:</b>	HY-109714		
<b>CAS No.:</b>	2005-10-9		
<b>Molecular Formula:</b>	C <sub>13</sub> H <sub>8</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	196.2		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<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 (509.68 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.0968 mL	25.4842 mL	50.9684 mL
	5 mM	1.0194 mL	5.0968 mL	10.1937 mL
	10 mM	0.5097 mL	2.5484 mL	5.0968 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (12.74 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

3,4-Benzocoumarin is a kind of the expanded structure of coumarin derivatives. Coumarin is a chemical compound in the benzopyrone chemical class that can be found in many natural species. Coumarins possess variety of biological activities and unique photophysical properties<sup>[1]</sup>. 3,4-Benzocoumarin, a AOH-like compound, has the sensibility of the antibody with an IC<sub>50</sub> of 919.2 ng/mL<sup>[2]</sup>.

### REFERENCES

- [1]. Wang J, et al. Application of quantitative structure-activity relationship analysis on an antibody and alternariol-like compounds interaction study. J Mol Recognit. 2019 Jun;32(6):e2776.

**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