



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

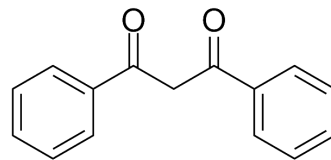
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Dibenzoylmethane

<b>Cat. No.:</b>	HY-W009731		
<b>CAS No.:</b>	120-46-7		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>12</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	224.26		
<b>Target:</b>	Keap1-Nrf2		
<b>Pathway:</b>	NF-κB		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (445.91 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	1 mM	4.4591 mL	22.2956 mL	44.5911 mL
	5 mM	0.8918 mL	4.4591 mL	8.9182 mL
	10 mM	0.4459 mL	2.2296 mL	4.4591 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.15 mM); Clear solution			

### BIOLOGICAL ACTIVITY

<b>Description</b>	Dibenzoylmethane, a minor ingredient in licorice, activates Nrf2 and prevents various cancers and oxidative damage. Dibenzoylmethane, an analog of curcumin, results in dissociation from Keap1 and nuclear translocation of Nrf2 <sup>[1]</sup> .
<b>In Vitro</b>	<p>Dibenzoylmethane (10, 20, 30, 40, 50 μM; 6 hours) treatment concentration-dependently increases the mRNA level of HO-1 but has no effect on the mRNA level of Nrf2 in HepG2 cells. Dibenzoylmethane induces HO-1 and Nrf2 protein expression, and the induction diminishes after 12 h<sup>[1]</sup>.</p> <p>Dibenzoylmethane (10, 20, 30, 40, 50 μM; 2 hours) concentration-dependently increases the phosphorylated protein levels of Erk1/2, p38MAPK, JNK, AMPK, and Akt in HepG2 cells. Dibenzoylmethane does not show significant cytotoxicity<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

---

**In Vivo**

Dibenzoylmethane (200, 500 mg/kg/day; ip; for three consecutive days) pretreatment significantly reduces both the area and the severity of necrosis, as well as the leukocyte infiltration, at a dose of 200 mg/kg in wild-type and Nrf2 knockout mice [1].

Dibenzoylmethane protects against CCl<sub>4</sub>-induced (1:49,v/v, 10 ml/kg) liver damage in wild-type mice<sup>[1]</sup>.

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

---

**REFERENCES**

[1]. Mingnan Cao, et al. Dibenzoylmethane Protects Against CCl<sub>4</sub>-Induced Acute Liver Injury by Activating Nrf2 via JNK, AMPK, and Calcium Signaling. AAPS J. 2017 Nov;19(6):1703-1714.

---

**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