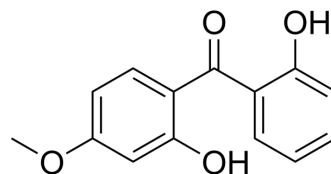


## Dioxybenzone

Cat. No.:	HY-B0966
CAS No.:	131-53-3
Molecular Formula:	C <sub>14</sub> H <sub>12</sub> O <sub>4</sub>
Molecular Weight:	244
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (409.84 mM)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		4.0984 mL	20.4918 mL	40.9836 mL
	5 mM		0.8197 mL	4.0984 mL	8.1967 mL
	10 mM		0.4098 mL	2.0492 mL	4.0984 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 (10.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (10.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (10.25 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Dioxybenzone is an organic compound used in sunscreen to block UVB and short-wave UVA (ultraviolet) rays.

**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

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