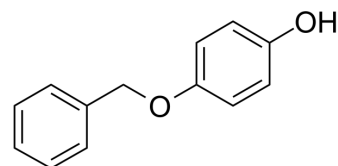


## Monobenzone

Cat. No.:	HY-30272		
CAS No.:	103-16-2		
Molecular Formula:	C <sub>13</sub> H <sub>12</sub> O <sub>2</sub>		
Molecular Weight:	200.23		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (499.43 mM)

\* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		4.9943 mL	24.9713 mL	49.9426 mL
	5 mM		0.9989 mL	4.9943 mL	9.9885 mL
	10 mM		0.4994 mL	2.4971 mL	4.9943 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 (10.39 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (10.39 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (10.39 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Monobenzone is a potent skin depigmenting agent. Monobenzone induces depigmentation and active human vitiligo and exhibits good potential for vitiligo research<sup>[1]</sup>.

### REFERENCES

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

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