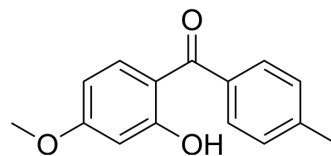


## Mexenone

<b>Cat. No.:</b>	HY-B1023		
<b>CAS No.:</b>	1641-17-4		
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>14</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	242.27		
<b>Target:</b>	Biochemical Assay Reagents		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (206.38 mM; Need ultrasonic)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.1276 mL	20.6381 mL	41.2763 mL
	5 mM	0.8255 mL	4.1276 mL	8.2553 mL
	10 mM	0.4128 mL	2.0638 mL	4.1276 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: 2.5 mg/mL (10.32 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 2.5 mg/mL (10.32 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Mexenone is a potent benzophenone-type UV filter. Mexenone is used for sunscreens agent<sup>[1]</sup>.

#### In Vitro

Mexenone (48 h) has an LC<sub>50</sub> of 1.5 mg/L of *D. japonica* and has an LC<sub>50</sub> of 0.9 mg/L of *D. magnaby* Ecosar<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- ACS Omega. 2021 Jan 20.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Mei-Hui Li, et al. Acute toxicity of benzophenone-type UV filters and paraben preservatives to freshwater planarian, *Dugesia japonica*. *Toxicological & Environmental Chemistry*. Volume 94, 2012 - Issue 3.

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

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