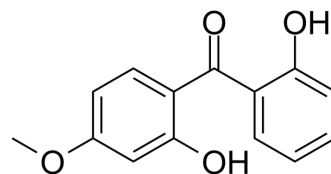


Dioxybenzone

Cat. No.:	HY-B0966
CAS No.:	131-53-3
Molecular Formula:	C ₁₄ H ₁₂ O ₄
Molecular Weight:	244.24
Target:	Others
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 (409.43 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
	1 mM		4.0943 mL	20.4717 mL	40.9433 mL
	5 mM		0.8189 mL	4.0943 mL	8.1887 mL
	10 mM		0.4094 mL	2.0472 mL	4.0943 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 (10.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (10.24 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (10.24 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.

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