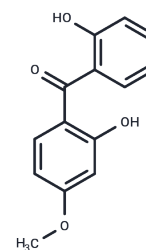


## Dioxybenzone

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 131-53-3  |
| Formula:          | C <sub>14</sub> H <sub>12</sub> O <sub>4</sub>  |
| Molecular Weight: | 244.24  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |   |
|---------------|---|
| Description   | Dioxybenzone (Benzophenone-8) is an organic agent that blocks UVB and short-wave UVA ultraviolet radiation. |
| Targets(IC50) | Others  |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | Ethanol: 45 mg/mL (184.25 mM), Sonication is recommended.<br>H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble),<br>DMSO: 65 mg/mL (266.13 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)  |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.19 mM), Sonication is recommended.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 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  |
| 50 mM | 0.0819 mL | 0.4094 mL  | 0.8189 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Rao GS, et al. AntiY Res. 2013 Jun;33(6):2535-40.

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