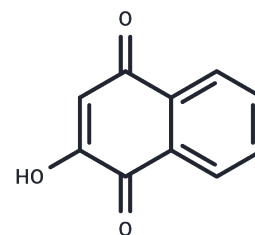


Lawsone

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 83-72-7 |
| Formula: | C ₁₀ H ₆ O ₃ |
| Molecular Weight: | 174.15 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA. |



Biological Description

| | |
|---------------|---|
| Description | Lawsone (Hennotannic acid) (2-hydroxy-1,4-naphthoquinone), also known as hennotannic acid, is a red-orange dye present in the leaves of the henna plant (<i>Lawsonia inermis</i>) as well as in the flower of water hyacinth (<i>Eichhornia crassipes</i>). |
| Targets(IC50) | Apoptosis, Antifungal |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 250 mg/mL (1435.54 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (5.74 mM), Sonication is recommended. <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 | 5.7422 mL | 28.7109 mL | 57.4218 mL |
| 5 mM | 1.1484 mL | 5.7422 mL | 11.4844 mL |
| 10 mM | 0.5742 mL | 2.8711 mL | 5.7422 mL |
| 50 mM | 0.1148 mL | 0.5742 mL | 1.1484 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

Munt DJ, et al. AAPS PharmSciTech. 2015 Dec;16(6):1425-33.

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