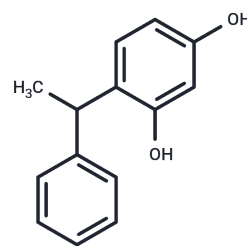


4-(1-Phenylethyl)resorcinol

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 85-27-8 |
| Formula: | C ₁₄ H ₁₄ O ₂ |
| Molecular Weight: | 214.26 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |



Biological Description

| | |
|---------------|---|
| Description | 4-(1-Phenylethyl)resorcinol (4-(1-Phenylethyl)benzene-1,3-diol) is a skin brightening agent that is a cosmetic additive. It works by inhibiting melanin production, reducing the appearance of dark spots, hyperpigmentation and uneven skin tone, and brightening the skin tone to reduce dullness. 4-(1-Phenylethyl)resorcinol is generally regarded as safe in the cosmetic industry, and is widely used in several countries and regions. |
| Targets(IC50) | Others |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 50 mg/mL (233.36 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: 2.5 mg/mL (11.67 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 | 4.6672 mL | 23.3361 mL | 46.6723 mL |
| 5 mM | 0.9334 mL | 4.6672 mL | 9.3345 mL |
| 10 mM | 0.4667 mL | 2.3336 mL | 4.6672 mL |
| 50 mM | 0.0933 mL | 0.4667 mL | 0.9334 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

Dongliang Y, et al. Benzene-1, 3-diol derivatives as the inhibitors of butyrylcholinesterase: An emergent target of Alzheimer's disease. Journal of the Serbian Chemical Society. 2022;87(3): 293-306.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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