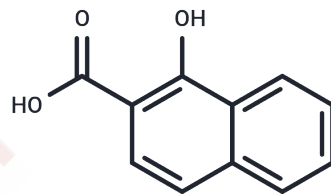


1-Hydroxy-2-naphthoic acid

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 86-48-6 |
| Formula: | C ₁₁ H ₈ O ₃ |
| Molecular Weight: | 188.18 |
| 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 | 1-Hydroxy-2-naphthoic acid (ALPHA-HYDROXYNAPHTHOIC ACID) is a Metabolite from phenanthrene degradation. |
| Targets(IC50) | Endogenous Metabolite |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 25 mg/mL (132.85 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 (5.31 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 | 5.3141 mL | 26.5703 mL | 53.1406 mL |
| 5 mM | 1.0628 mL | 5.3141 mL | 10.6281 mL |
| 10 mM | 0.5314 mL | 2.657 mL | 5.3141 mL |
| 50 mM | 0.1063 mL | 0.5314 mL | 1.0628 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

Pinyakong, O. et al.: FEMS Microbiol. Lett. 191, 115 (2000)

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