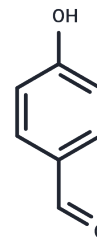


p-Hydroxybenzaldehyde

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 123-08-0 |
| Formula: | C7H6O2 |
| Molecular Weight: | 122.12 |
| 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. p-Hydroxybenzaldehyde (p-Oxybenzaldehyde) shows an inhibitory effect on the GABA transaminase to contribute to an antiepileptic and anticonvulsive activity, and its inhibitory activity was higher than that of valproic acid, a known anticonvulsant. |
| Targets(IC50) | GABA Receptor, Endogenous Metabolite, Transaminase |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 250 mg/mL (2047.17 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 mg/mL (16.38 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 | 8.1887 mL | 40.9433 mL | 81.8867 mL |
| 5 mM | 1.6377 mL | 8.1887 mL | 16.3773 mL |
| 10 mM | 0.8189 mL | 4.0943 mL | 8.1887 mL |
| 50 mM | 0.1638 mL | 0.8189 mL | 1.6377 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

Tao Y H , Yuan Z , Tang X Q , et al. Inhibition of GABA shunt enzymes' activity by 4-hydroxybenzaldehyde derivatives[J]. Bioorganic & Medicinal Chemistry Letters, 2006, 16(3):592-595.

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