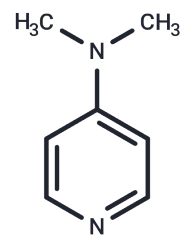


4-Dimethylaminopyridine

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 1122-58-3 |
| Formula: | C7H10N2 |
| Molecular Weight: | 122.17 |
| 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 | 4-Dimethylaminopyridine is an excellent medium for the formation of 3-cyano-2H-chromanes by cyclic condensation of salicylaldehyde and acrylonitrile triggered by the Morita-Balyis-Hillman reaction. |
| Targets(IC50) | Others |

Solubility Information

| | |
|---------------------|---|
| Solubility | DMSO: 250 mg/mL (2046.33 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: 3.3 mg/mL (27.01 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (81.85 mM),Solution. <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 | 8.1853 mL | 40.9266 mL | 81.8532 mL |
| 5 mM | 1.6371 mL | 8.1853 mL | 16.3706 mL |
| 10 mM | 0.8185 mL | 4.0927 mL | 8.1853 mL |
| 50 mM | 0.1637 mL | 0.8185 mL | 1.6371 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

1. Cai, Dongren , et al. Thermophysical properties of 4-dimethylaminopyridine-based ionic liquids. Journal of Molecular Liquids 297(2019):111875.

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