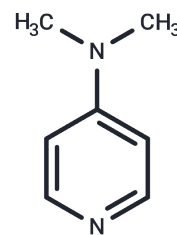


## 4-Dimethylaminopyridine

## 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: 80 mg/mL (654.83 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. <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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