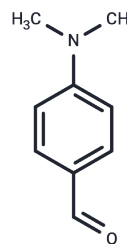


4-(Dimethylamino)benzaldehyde

Chemical Properties

CAS No. :	100-10-7
Formula:	C ₉ H ₁₁ NO
Molecular Weight:	149.19
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-(Dimethylamino)benzaldehyde (p-Dimethylaminobenzaldehyde) is a carcinogen that can induce liver cancer.
Targets(IC50)	Others

Solubility Information

Solubility	Ethanol: 20 mg/mL (134.06 mM),Sonication is recommended. DMSO: 80 mg/mL (536.23 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 (22.12 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	6.7029 mL	33.5143 mL	67.0286 mL
5 mM	1.3406 mL	6.7029 mL	13.4057 mL
10 mM	0.6703 mL	3.3514 mL	6.7029 mL
50 mM	0.1341 mL	0.6703 mL	1.3406 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

Axel Ehmann, et al. The van URK-Salkowski reagent – a sensitive and specific chromogenic reagent for silica gel thin-layer chromatographic detection and identification of indole derivatives. Journal of Chromatography A. Volume 132, Issue 2, 11 February 1977, Pages 267-276.

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