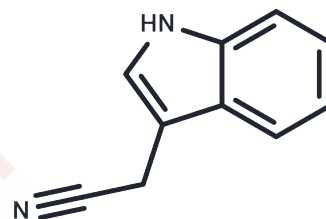


3-Indoleacetonitrile

Chemical Properties

CAS No. :	771-51-7
Formula:	C ₁₀ H ₈ N ₂
Molecular Weight:	156.18
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	3-Indoleacetonitrile is a light-induced auxin-inhibitory substance that is isolated from light-grown cabbage shoots.
Targets(IC50)	Endogenous Metabolite,HSV,Influenza Virus

Solubility Information

Solubility	DMSO: 45 mg/mL (288.13 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 (12.81 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	6.4029 mL	32.0143 mL	64.0287 mL
5 mM	1.2806 mL	6.4029 mL	12.8057 mL
10 mM	0.6403 mL	3.2014 mL	6.4029 mL
50 mM	0.1281 mL	0.6403 mL	1.2806 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

Mahadevan S . Conversion of 3-indoleacetaldoxime to 3-indoleacetonitrile by plants[J]. Archives of Biochemistry & Biophysics, 1963, 100(3):557-558.

Somei M , Kizu K , Kunimoto M , et al. ChemInform Abstract: The Chemistry of Indoles. Part 24. Syntheses of 3-Indoleacetic Acid and 3-Indoleacetonitrile Having a Halogeno Group and a Carbon Functional Group at the 4-Position.[J]. Chemischer Informationsdienst, 1986, 17(13).

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