

3-Indoleacetic acid

Chemical Properties

CAS No. : 87-51-4

Formula: C₁₀H₉NO₂

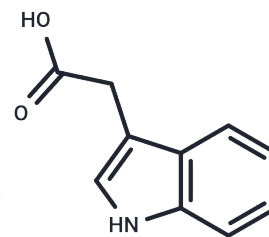
Molecular Weight: 175.18

Storage:

Keep away from direct sunlight, Keep away from moisture, Store at low temperature

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-Indoleacetic acid (indolylacetic acid) (IAA) is the most common plant hormone of the auxin class and it regulates various aspects of plant growth and development.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 262 mg/mL (1495.6 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: 5 mg/mL (28.54 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	5.7084 mL	28.5421 mL	57.0841 mL
5 mM	1.1417 mL	5.7084 mL	11.4168 mL
10 mM	0.5708 mL	2.8542 mL	5.7084 mL
50 mM	0.1142 mL	0.5708 mL	1.1417 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

Furukawa S, et al. Toxicol Pathol. 2004, 32(6):659-67.

Shang H, Huang C, Xiao Z, et al. Gut microbiota-derived tryptophan metabolites alleviate liver injury via AhR/Nrf2 activation in pyrrolizidine alkaloids-induced sinusoidal obstruction syndrome. Cell & Bioscience. 2023, 13(1): 1-16.

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