

Indole-3-pyruvic acid

Chemical Properties

CAS No. : 392-12-1

Formula: C₁₁H₉NO₃

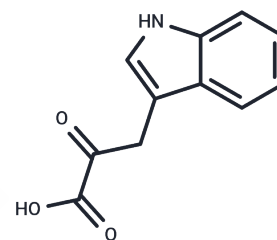
Molecular Weight: 203.19

Storage:

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

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	Indole-3-pyruvic acid (3-(3-Indolyl)-2-oxopropanoic acid) is a compound involved in the biosynthesis of Indole-3-acetic acid, a plant hormone which plays important roles in regulating growth and responses to environmental changes.
Targets(IC50)	Others, Aryl Hydrocarbon Receptor, Endogenous Metabolite

Solubility Information

Solubility	DMSO: 252 mg/mL (1240.22 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 (24.61 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	4.9215 mL	24.6075 mL	49.215 mL
5 mM	0.9843 mL	4.9215 mL	9.843 mL
10 mM	0.4922 mL	2.4608 mL	4.9215 mL
50 mM	0.0984 mL	0.4922 mL	0.9843 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

Kneen MM, et al. Characterization of a thiamin diphosphate-dependent phenylpyruvate decarboxylase from *Saccharomyces cerevisiae*. FEBS J. 2011 Jun;278(11):1842-53.

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