

Indole-3-butyric acid

#Cat: NB-64-34172-10mg

Size: 10 mg

Chemical Properties:

CAS No: 133-32-4

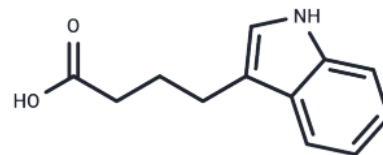
Formula: C₁₂H₁₃NO₂

Molecular Weight: 203.24

Appearance: Solid

Storage: store under nitrogen

Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description:

Description	Indole-3-butyric acid (IBA) is a plant hormone in the auxin family and is an ingredient in many commercial plant rooting horticultural products.
Targets (IC50)	Endogenous Metabolite

Solubility Information

Solubility	Ethanol: 39 mg/mL (191.89 mM), Sonication is recommended. DMSO: 50 mg/mL (246.01 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9203 mL	24.6015 mL	49.2029 mL
5 mM	0.9841 mL	4.9203 mL	9.8406 mL
10 mM	0.492 mL	2.4601 mL	4.9203 mL
50 mM	0.0984 mL	0.492 mL	0.9841 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.

Reference

Kutsky, R. (1952). Effects of Indolebutyric Acid and Other Compounds on Virus Concentration in Plant Tissue Cultures. *Science*, 115(2975), 19-20. doi: 10.1126/science.115.2975.19

Guo, J., Xin, Y., & Yin, X. (2010). Selective Differentiation of Indoleacetic Acid and Indolebutyric Acid Using Colorimetric Recognition after Ehrlich Reaction. *Journal Of Agricultural And Food Chemistry*, 58(11), 6556-6561. doi: 10.1021/jf1202020138

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