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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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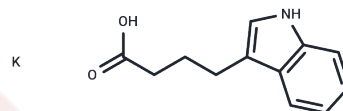
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Indole-3-butyric acid potassium

Chemical Properties

CAS No. :	60096-23-3
Formula:	C ₁₂ H ₁₂ KNO ₂
Molecular Weight:	241.33
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Indole-3-butyric acid potassium at a concentration of 10 μ M induces the formation of adventitious roots (AR) in thin cell layers (TCL). Additionally, at a concentration of 1 μ M, it promotes lateral root formation in Arabidopsis by facilitating the production of nitric oxide (NO).
In vitro	For the direct quantification of 2-keto-L-gulonic acid (2-KLG) production on plates, three pH indicators were tested. Among them, Bromothymol Blue demonstrated superior performance due to its distinct color transition and appropriate pH range (blue to yellow at pH 6.5-7.5). When a solution of Bromothymol Blue (0.1%, w/v) is applied to an agar plate, the areas around colonies of <i>K. vulgare</i> 07 mutants shift from blue to yellow. This color change occurs because the <i>K. vulgare</i> 07 mutants secrete 2-KLG onto the agar, thus acidifying the immediate vicinity of the colonies.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1437 mL	20.7185 mL	41.437 mL
5 mM	0.8287 mL	4.1437 mL	8.2874 mL
10 mM	0.4144 mL	2.0719 mL	4.1437 mL
50 mM	0.0829 mL	0.4144 mL	0.8287 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.

Inhibitor • Natural Compounds • Compound Libraries • Recombinant Proteins

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