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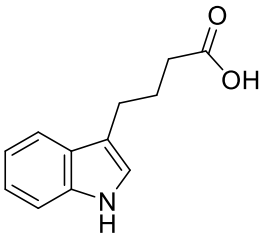
fine chemicals

PRODUCT DATA SHEET

Indole-3-butyric acid

Code No.: **BIA-I2585**

Pack sizes: **25 mg, 100 mg**



Synonyms : Clonex, Clonex (rooting hormone), Hormex, Hormodin, IBA, Indole-3-butanoic acid, Indolebutyric acid, Kornevin, NSC 3130, Oxyberon, Rootex, Seradix, Stim-Root

Specifications

CAS #	:	**133-32-4**
Molecular Formula	:	**$C_{12}H_{13}NO_2$**
Molecular Weight	:	**203.24**
Source	:	**Synthetic**
Appearance	:	**White powder**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol or DMSO**

Application Notes

Indole-3-butyric acid, an endogenous plant metabolite, is a plant growth regulator which is converted to the active auxin, indole-3-acetic acid, in peroxisomes by removal of two side-chain methylene units in a process similar to fatty acid beta-oxidation. Indole-3-butyric acid may have intrinsic plant growth regulatory activity. Indole-3-butyric acid induces nitric oxide production during lateral root development in Arabidopsis thaliana.

References

1. Indole-3-butyric acid in plant growth and development. Ludwig-Miller J. Plant Growth Reg. 2000, 32, 219.
2. Identification and characterization of Arabidopsis indole-3-butyric acid response mutants defective in novel peroxisomal enzymes. Zolman B. et al. Genetics 2008, 180, 237.
3. Exogenous auxin-induced NO synthesis is nitrate reductase-associated in Arabidopsis thaliana root primordia. Kolbert Z. et al. J Plant Physiol. 2008, 165, 967.

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