

Produktinformation



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PRODUCT INFORMATION



4-Chloroindole-3-acetic Acid

Item No. 35534

CAS Registry No.: 2519-61-1

Formal Name: 4-chloro-1H-indole-3-acetic acid

Synonyms: 4-CI-IAA, 4-chloro IAA,

4-Chloroindoleacetic Acid, NSC 295294

MF: C₁₀H₈CINO₂ FW: 209.6

≥95% **Purity:** UV/Vis.:

 λ_{max} : 223 nm Supplied as: A solid

Storage: -20°C Stability: ≥4 years Item Origin: Synthetic

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

4-Chloroindole-3-acetic acid (4-Cl-IAA) is supplied as a solid. A stock solution may be made by dissolving the 4-CI-IAA in the solvent of choice, which should be purged with an inert gas. 4-CI-IAA is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 4-CI-IAA in DMSO is approximately 14 mg/ml and approximately 16 mg/ml in ethanol and DMF.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 4-CI-IAA can be prepared by directly dissolving the solid in aqueous buffers. The solubility of 4-CI-IAA in PBS (pH 7.2) is approximately 0.20 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

4-CI-IAA is a halogenated plant auxin plant growth regulator that has been found in P. sativum. 1 It induces tobacco callus growth and biologically active alkaloid production in Duboisia root cultures when used at a concentration of 0.1 mg/ml. 4-Cl-IAA (1 µM) reduces heat stress-induced grain loss in wheat (T. aestivum).²

References

- 1. Reinecke, D.M. 4-Chloroindole-3-acetic acid and plant growth. Plant Growth Regul. 27, 3-13 (1999).
- 2. Abeysingha, D.N., Ozga, J.A., Strydhorst, S., et al. The effect of auxins on amelioration of heat stressinduced wheat (Triticum aestivum L.) grain loss. J. Agron. Crop. Sci. 207(6), 970-983 (2021).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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