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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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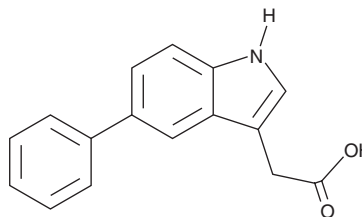
PRODUCT INFORMATION



5-Ph-IAA

Item No. 38161

CAS Registry No.: 168649-23-8
Formal Name: 5-phenyl-1H-indole-3-acetic acid
MF: C₁₆H₁₃NO₂
FW: 251.3
Purity: ≥95%
UV/Vis.: λ_{max}: 253 nm
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

5-Ph-IAA is supplied as a solid. A stock solution may be made by dissolving the 5-Ph-IAA in the solvent of choice, which should be purged with an inert gas. 5-Ph-IAA is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 5-Ph-IAA in these solvents is approximately 33, 20, and 16 mg/ml, respectively.

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 5-Ph-IAA can be prepared by directly dissolving the solid in aqueous buffers. The solubility of 5-Ph-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

5-Ph-IAA is a phenylic substituted indole and ligand used for bump and hole, a technique used to study single protein isoforms when familial homology would interfere with other isoform-selective approaches.^{1,2} It activates a bump-and-hole-modified protein, transport inhibitor response 1 (TIR1), which forms a PROTAC-associated complex that targets and degrades sister chromatid cohesion 1 (RAD21) and induces cell cycle arrest at the G₂ or M phase in *Arabidopsis* when used at a concentration of 1 μM.² Intraperitoneal administration of 5-Ph-IAA (1, 3, or 10 mg/kg per day) reduces tumor growth *via* the same process by targeting and degrading bromodomain-containing protein 4 (BRD4) in an HCT116 colorectal cancer xenograft mouse model.

References

1. Islam, K. The bump-and-hole tactic: Expanding the scope of chemical genetics. *Cell Chem. Biol.* **25(10)**, 1171-1184 (2018).
2. Yesbolatova, A., Saito, Y., Kitamoto, N., *et al.* The auxin-inducible degron 2 technology provides sharp degradation control in yeast, mammalian cells, and mice. *Nat. Commun.* **11(1)**, 5701 (2020).

WARNING

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

SAFETY DATA

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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Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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