bio-techne
TOCRIS

Print Date: Mar 3rd 2025

Certificate of Analysis

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Product Name: **Auxin** **Catalog No.: 6834** **Batch No.: 1**

CAS Number: 87-51-4

IUPAC Name: 1*H*-Indole-3-acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{10}H_9NO_2.0.1H_2O$

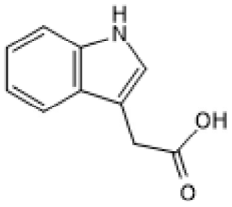
Batch Molecular Weight: 176.98

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.86	5.24	7.91
Found	67.98	5.09	7.87

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 87-51-4

IUPAC Name: 1*H*-Indole-3-acetic acid

Description:

Auxin is a chemical dimerizer used in auxin-inducible degron (AID) systems. Induces degradation of a target protein tagged with the auxin-receptor F-box protein Tir1 E3 ligase AID in human colorectral cancer and mouse ES cells or tagged with AFB2 in A431 cells. Endogenous plant hormone.

Physical and Chemical Properties:

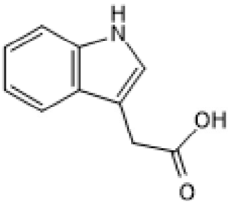
Batch Molecular Formula: $C_{10}H_9NO_2.0.1H_2O$

Batch Molecular Weight: 176.98

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Li *et al* (2019) An efficient auxin-inducible degron system with low basal degradation in human cells. Nat.Methods. ***16*** 866. PMID: 31451765.

Natsume *et al* (2016) Rapid protein depletion in human cells by auxin-inducible degron tagging with short homology donors. Cell Rep. ***15*** 210. PMID: 27052166.

Nishimura *et al* (2009) An auxin-based degron system for the rapid depletion of proteins in nonplant cells. Nat.Methods ***6*** 917. PMID: 19915560.