

Product Name: 5-Ph-IAA

Catalog No.: 7392

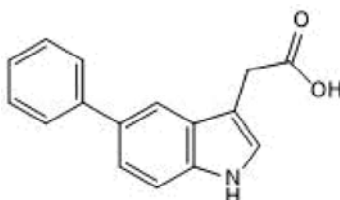
Batch No.: 3

CAS Number: 168649-23-8

IUPAC Name: 5-Phenyl-1*H*-indole-3-acetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₃NO₂
Batch Molecular Weight: 251.29
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	76.48	5.21	5.57
Found	76.09	5.2	5.48

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

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Description:

5-Ph-IAA is a selective and potent "Bump & Hole" TAG Degradator ($DC_{50,6h} = 17.0$ nM, $T_{1/2} = 62.3$ min), for use within an auxin-inducible degron (AID2) system. 5-Ph-IAA is an analog (the "Bump") of natural auxin that induces rapid degradation of a target protein tagged with a single-point mutant OsTIR1^{F74G} F-box protein (the "Hole" or mini AID). The induced degradation is reversible 3 h after washout with fresh medium. 5-Ph-IAA shows rapid depletion of mAID-tagged nuclear and cytoplasmic proteins in proliferating and non-proliferating mammalian cells with no detectable basal degradation, lower cytotox... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

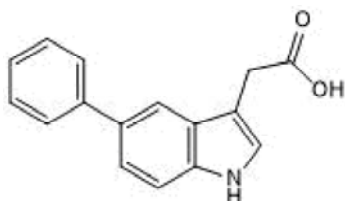
Batch Molecular Formula: C₁₆H₁₃NO₂

Batch Molecular Weight: 251.29

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Yeung *et al* (2021) One-step multiplex toolkit for efficient generation of conditional gene silencing human cell lines. *Mol.Biol.Cell* **32** (14) 1320. PMID: 33979199.

Zhang *et al* (2021) An improved auxin-inducible degron system for fission yeast. *G3 Genes|Genomes|Genetics* **12** (1). PMID: 34849776.

Yesbolatova *et al* (2020) The auxin-inducible degron 2 technology provides sharp degradation control in yeast, mammalian cells, and mice. *Nat.Commun.* **11** (1) 5701. PMID: 33177522.

Storage: Store at -20°C

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. Our standard recommendations are:

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.

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