

5-Ph-IAA: Inducer for Auxin Inducible Degron 2 System

30-003	10 mg	US\$ 370	(JPY 37,000)
30-003-10	100 mg	US\$ 980	(JPY 98,000)

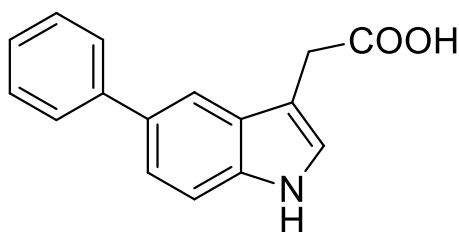
Shipping and Storage: Ship at ambient temperature or at 4 °C. Make stock solution, aliquot and store at -20 °C or below.

Stock solution: Make 100mM stock solution by resolving 10 mg 5-Ph-IAA in 400 µL solvents, such as DMSO and store the stock solution at -20 °C for a year or at -80°C for longer period.

Usage: 5-Ph-IAA induces degradation of degron-fused protein in Auxin Inducible Degron 2 system. For inducing degradation in cell culture, use a stock solution dissolved in DMSO. 5-Ph-IAA typically works at less than 1 µM. For mice, use a 5-Ph-IAA solution dissolved in PBS. It typically works less than 10 mg/kg by intraperitoneal injection. For detail protocol, see Reference.

Product name:	5-Ph-IAA
Chemical name:	5-Phenyl-1H-indole-3-acetic acid
CAS Registry Number:	168649-23-8
Chemical Formula:	C ₁₆ H ₁₃ NO ₂
Molecular Weight:	251.28

Molecular structure of 5-Ph-IAA, Inducer for Auxin Inducible Degron 2 system



5-Ph-IAA

Reference : Protocol

Yesbolatova A et al. The Auxin-Inducible Degron 2 technology provides sharp degradation control in yeast, mammalian cells, and mice. Nat Commun. 2020 11: 5701. PMID: [33177522](https://pubmed.ncbi.nlm.nih.gov/33177522/)

This product is to be used for research purpose only, not in human.

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION

Product name: 5-Ph-IAA

Chemical name: 5-Phenyl-1H-indole-3-acetic acid

Product code: 03-003. 03-004

Supplier: BioAcademia Inc.

Address: North Buiding, Research Institute for Microbial Diseases, Osaka University, 3-1 Yamadaoka, Suita, Osaka 565-0871, Japan

Telephone: 81-6-6877-2335 **Fax:** 81-6-6877-2336

E-mail: info@bioacademia.co.jp

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Substance

PHYSICAL HAZARDS: Not classified

HEALTH HAZARDS: Not classified

ENVIRONMENTAL HAZARDS: Not classified

Label elements

Pictograms or hazard symbols: None

Signal word: No signal word

Hazard statements: None

Precautionary statements: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

CAS Registry Number: 168649-23-8

Chemical Formula: $C_{16}H_{13}NO_2$

Molecular Weight: 251.28

Notice Through Official Gazettes Reference Number

ENCS: Not Listed

4. FIRST-AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Get medical advice/attention if you feel unwell. Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

Specific hazards arising from the chemical: Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

6. HANDLING AND STORAGE

Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment.

Prevent dispersion of dust. Wash hands and face thoroughly after handling.

Use a local exhaust if dust or aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath

Control parameters: Not set up

Personal protective equipment

Respiratory protection: Dust respirator. Follow local and national regulations.

Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin and body protection: Protective clothing.

8. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal- Powder

Color: Colorless to Pale yellow.

Odor: No data available

pH: No data available

Flammability or explosive limits:

Lower: No data available

Upper: No data available

Relative density: No data available

Solubility(ies): [Water] No data available,

[Other solvents] Soluble: methanol, acetone, DMSO, DMF

9. STABILITY AND REACTIVITY

Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	No special reactivity has been reported.
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	Carbon monoxide, Carbon dioxide, Nitrogen oxides (NO _x)

10. TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	No data available

11. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF):	No data available
Mobility in soil	
Log Pow:	No data available
Soil adsorption (Koc):	No data available
Henry's Law constant(PaM³/mol):	No data available

12. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

13. TRANSPORT INFORMATION

Hazards Class: Does not correspond to the classification standard of the United Nations
UN-No: Not listed

14. REGULATORY INFORMATION

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, or have known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

10. OTHER INFORMATION

This MSDS is correct to the best of our knowledge at the date of publication but does not purport to be all inclusive and shall be used only as a guide. It must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The burden of safe use of this material rests entirely with the user. Bioacademia Inc. shall not be held liable for any injury or damage resulting from handling or from contact with the above product.

This product is to be used for research purpose only, not in human.