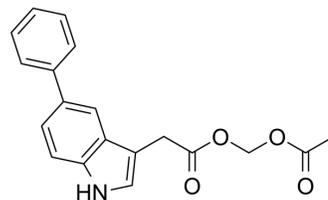


5-Ph-IAA-AM

Cat. No.:	HY-141894		
CAS No.:	2990123-10-7		
Molecular Formula:	C ₁₉ H ₁₇ NO ₄		
Molecular Weight:	323.34		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (309.27 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.0927 mL	15.4636 mL	30.9272 mL
	5 mM		0.6185 mL	3.0927 mL	6.1854 mL
	10 mM		0.3093 mL	1.5464 mL	3.0927 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.73 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

5-Ph-IAA-AM is an eggshell-permeable 5-Ph-IAA analog. 5-Ph-IAA-AM affords an enhanced protein degradation in laid embryos. 5-Ph-IAA-AM can be used to disclosure the roles of proteins in *C. elegans*, in particular those that are involved in embryogenesis and development, through temporally controlled protein degradation^[1].

REFERENCES

[1]. Negishi T, et al. The auxin-inducible degron 2 (AID2) system enables controlled protein knockdown during embryogenesis and development in *Caenorhabditis elegans*. *Genetics*. 2022 Feb 4;220(2):iyab218.

Caution: Product has not been fully validated for medical applications. For research use only.

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