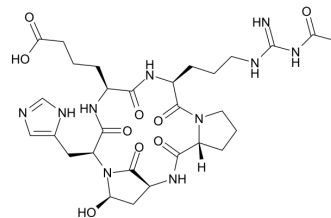


## Argadin

<b>Cat. No.:</b>	HY-P3461
<b>CAS No.:</b>	289665-92-5
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>42</sub> N <sub>10</sub> O <sub>9</sub>
<b>Molecular Weight:</b>	674.71
<b>Target:</b>	Parasite
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Sealed storage, away from moisture and light Powder    -80°C    2 years -20°C    1 year

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (37.05 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.4821 mL	7.4106 mL	14.8212 mL
	5 mM	0.2964 mL	1.4821 mL	2.9642 mL
	10 mM	0.1482 mL	0.7411 mL	1.4821 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Argadin is a cyclopentapeptide chitinase inhibitor. Argadin inhibits chitinase B (ChiB) with a K<sub>i</sub> value of 20 nM. Argadin can be used for the research of fungicid and insecticid<sup>[1][2]</sup>.

#### IC<sub>50</sub> & Target

Ki: 20 nM (ChiB)<sup>[2]</sup>

#### In Vitro

Argadin has inhibitory activity for chitinase B (ChiB) with a K<sub>i</sub> value of 20 nM<sup>[2]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Jun Koseki, et al. Molecular Orbital Study of the Formation of Intramolecular Hydrogen Bonding of a Ligand Molecule in a Protein Aromatic Hydrophobic Pocket. Chem Pharm Bull (Tokyo). 2016;64(7):1031-5.

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[2]. Hiroaki Gouda, et al. Computational analysis of the binding affinities of the natural-product cyclopentapeptides argifin and argadin to chitinase B from *Serratia marcescens*. *Bioorg Med Chem*. 2008 Apr 1;16(7):3565-79.

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

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