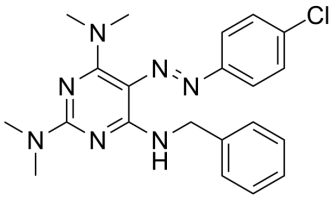
Chitinase-IN-4

Cat. No.:	HY-151469
CAS No.:	2901040-41-1
Molecular Formula:	$C_{21}H_{24}ClN_7$
Molecular Weight:	409.92
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Chitinase-IN-4 (compound 8f), an azo-aminopyrimidine derivative, is a potent, selective O*f*Chi-h inhibitor with an IC_{50} value of 0.1 μM. Chitinase-IN-4 has good insecticidal activity. Chitinase-IN-4 can be used in research of green pest control and management[1].
In Vitro	Chitinase-IN-4 (compound 8f; 0-1 μM) displays outstanding inhibitory potency via a benzyl on the amino group at the 4-position of pyrimidine, exhibits a K_i value of 64.7 nM against OfChi-h[1]. Chitinase-IN-4 (100-500 μg/mL; 48 h) has insecticidal activity. Chitinase-IN-4 displays 100% mortality against P. xylostella at a concentration of 500 μg/mL, which is much higher than that of the control drug hexaflumuron, and inhibits 22.5% Ostrinia nubilalis at a concentration of 500 μg/mL[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Dong L, et, al. Discovery of Azo-Aminopyrimidines as Novel and Potent Chitinase OfChi-h Inhibitors via Structure-Based Virtual Screening and Rational Lead Optimization. J Agric Food Chem. 2022 Sep 19.

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