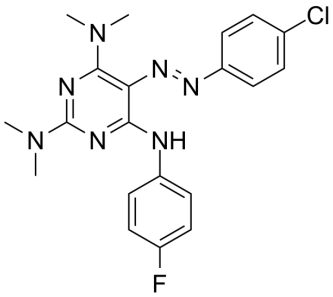
Chitinase-IN-5

Cat. No.:	HY-151470
CAS No.:	2901040-47-7
Molecular Formula:	$C_{20}H_{21}ClFN_7$
Molecular Weight:	413.88
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Chitinase-IN-5 (8i) is a potent chitinase O*f*Chi-h inhibitor with an IC_{50} value of 0.051 μM. Chitinase-IN-5 shows good insecticidal activity, it can be used for the research of green pest control and management[1].
IC_{50} & Target	IC50: 0.051 μM (OfChi-h)[1]
In Vitro	Chitinase-IN-5 (0-1 μM; 20 min) inhibits 73.2% activity of OfChi-h at a concentration of 1μM and with an IC_{50} value of 0.051 μM[1]. Chitinase-IN-5 (100-500 μg/mL; 48 h) exhibits high activity with mortality rates over 80% at 500 μg/mL against P. xylostella, which is much higher than that of the control drug hexaflumuron, and inhibits 32.5% Ostrinia nubilalis[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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA