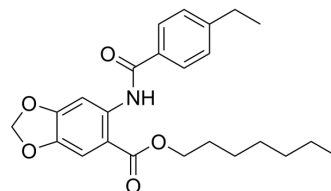


Insecticidal agent 3

| | |
|--------------------|---|
| Cat. No.: | HY-149864 |
| Molecular Formula: | C ₂₄ H ₂₉ NO ₅ |
| Molecular Weight: | 411.49 |
| Target: | Others |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|--------------------|--|
| Description | Insecticidal agent 3 is a multichitinase inhibitors, belongs to insect growth regulators (IGRs) with K_{i} s of 0.8 μ M, 11.9 μ M, and 2.3 μ M for Of ChtI, Of ChtII, and Of Chi-h, respectively. Insecticidal agent 3 exhibits insecticidal activity against two lepidopteran pests by interfering with normal insect growth and molting ^[1] . |
| In Vitro | Insecticidal agent 3(Compound d29) (500 mg/L, 120 or 96 hours) inhibits the growth and development of <i>O.furnacalis</i> and <i>P.xylostella</i> , with the larval exhibiting symptoms of abnormal molting and cuticle fold ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Jin X, et.al. Design, Synthesis, and Biological Activity of Novel Benzo[d][1,3]dioxole-6-benzamide Derivatives: Multichitinase Inhibitors as Potential Insect Growth Regulator Candidates. *J Agric Food Chem.* 2023 Jun 7;71(22):8345-8355.

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

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