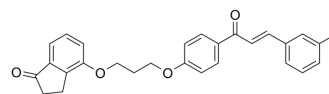


TMV-IN-1

Cat. No.:	HY-148567
CAS No.:	2883408-27-1
Molecular Formula:	C ₂₈ H ₂₆ O ₄
Molecular Weight:	426.5
Target:	TMV; Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TMV-IN-1, chalcone derivative, is a tobacco mosaic virus (TMV) inhibitor. TMV-IN-1 has good therapeutic activity and protective activity against TMV with EC ₅₀ values of 70.7 µg/mL and 60.8 µg/mL, respectively. TMV-IN-1 can be used for the research of infection, inflammation and tumor ^[1] .
IC₅₀ & Target	EC ₅₀ : 70.7 µg/mL, 60.8 µg/mL (TMV) ^[1] K _d : 0.0427 µM (TMV-CP) ^[1] .
In Vitro	TMV-IN-1 (compound N2) has good therapeutic activity and protective activity against TMV with EC ₅₀ values of 70.7 µg/mL and 60.8 µg/mL, respectively ^[1] . TMV-IN-1 can bind the TMV coat protein (TMV-CP) with K _d value of 0.0427 µM ^[1] . TMV-IN-1 (5-7 days) decreases the increasing rate of malondialdehyde and increases the content of defense enzymes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nan Sun, et al. Design, Synthesis, and Bioactivity of Chalcone Derivatives Containing Indanone. ACS Omega 2023.

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

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