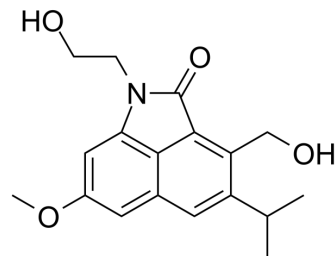


TMV-IN-4

Cat. No.:	HY-152259
CAS No.:	1820823-40-2
Molecular Formula:	C ₁₈ H ₂₁ NO ₄
Molecular Weight:	315.36
Target:	TMV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TMV-IN-4 (compound 3) is a tobacco mosaic virus (TMV) inhibitor that effectively induces resistance and enhances plant tolerance to TMV infection by interacting with TMV helicase. TMV-IN-4 enhances peroxidase and superoxide dismutase activity, thereby increasing resistance to TMV in tobacco ^[1] .
In Vitro	TMV-IN-4 (compound 3) (20 μM) shows significant anti-TMV activity against the host plant <i>N. glutinosa</i> leaf, with an inhibition rate of 58.5% and an IC ₅₀ value of 19.6 μM. It also shows that pretreatment with compound 3 can increase the resistance of <i>N. glutinosa</i> to TMV infection ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Guang-Yu Yang, et al. Cyclopiazonic acid type indole alkaloids from *Nicotiana tabacum*-derived fungus *Aspergillus versicolor* and their anti-tobacco mosaic virus activities. *Phytochemistry*. 2022 Jun;198:113137.

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

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