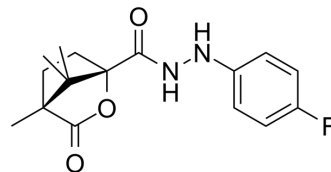


Laccase-IN-1

Cat. No.:	HY-149614
Molecular Formula:	C ₁₆ H ₁₉ FN ₂ O ₃
Molecular Weight:	306.33
Target:	Endogenous Metabolite; Fungal
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Laccase-IN-1 (compound 4b) is an orally active inhibitor of laccase, with the IC ₅₀ of 11.3 μM. Laccase-IN-1 displays protective and curative effects on apple fruits infected by <i>B. dothidea</i> . Laccase-IN-1 enhances the cell membrane permeability, destroys the mycelial surface morphology and the cell ultrastructure, and reduces the ergosterol and exopolysaccharide contents of <i>B. dothidea</i> ^[1] .
IC ₅₀ & Target	11.3 μM (laccase) ^[1]

REFERENCES

[1]. Yang Z, et al. Design, Synthesis, and Biological Evaluation of Novel Camphor-Based Hydrazide and Sulfonamide Derivatives as Laccase Inhibitors against Plant Pathogenic Fungi/Oomycetes. *J Agric Food Chem.* 2023;71(39):14151-14163.

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

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