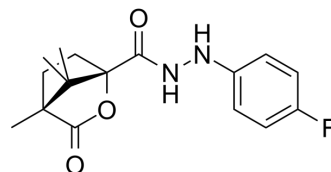


## Laccase-IN-1

<b>Cat. No.:</b>	HY-149614
<b>CAS No.:</b>	2991094-41-6
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>19</sub> FN <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	306.33
<b>Target:</b>	Endogenous Metabolite; Fungal
<b>Pathway:</b>	Metabolic Enzyme/Protease; Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Laccase-IN-1 (compound 4b) is an orally active inhibitor of laccase, with the IC <sub>50</sub> 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> <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	11.3 μM (laccase) <sup>[1]</sup>

### 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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