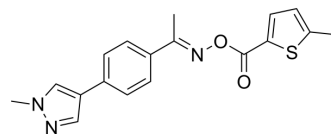


PPO-IN-4

Cat. No.:	HY-156267
Molecular Formula:	C ₁₈ H ₁₇ N ₃ O ₂ S
Molecular Weight:	339.41
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PPO-IN-4 (compound 2i) is a potent Protoporphyrinogen oxidase (PPO) inhibitor. PPO-IN-4 can be used as a candidate herbicide for wheat, corn, and paddy fields ^[1] .
In Vitro	PPO-IN-4 (compound 2i) interacts with the amino acid residue ARG-98 by forming two hydrogen bonds and interacts with the amino acid residue PHE-392 by forming two π - π stacking interactions, indicating that PPO-IN-4 has more excellent herbicidal activity than pyraflufen-ethyl (HY-126922) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhao LX, et al. Design, Synthesis, and Biological Activity Determination of Novel Phenylpyrazole Protoporphyrinogen Oxidase Inhibitor Herbicides Containing Five-Membered Heterocycles. *J Agric Food Chem.* 2023 Oct 4;71(39):14164-14178.

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

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