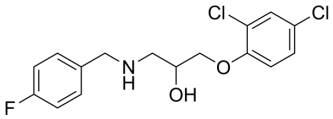
Phosphatase-IN-1

Cat. No.:	HY-149492
CAS No.:	2889356-55-0
Molecular Formula:	$C_{16}H_{16}Cl_2FNO_2$
Molecular Weight:	344.21
Target:	Phosphatase; Fungal
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Phosphatase-IN-1 (compound II-8), a propranolol (HY-B0573B) derivative, is a phosphatidate phosphatase (Pah) inhibitor. Phosphatase-IN-1 can binds to MoPah1, with an affinity constant of 19.8 μM. Phosphatase-IN-1 inhibits growth of plant pathogens and shows anti-fungal ability. Phosphatase-IN-1 is not toxic to rice seedlings and wheat heads[1].
In Vitro	Phosphatase-IN-1 (compound II-8) effectively inhibits vegetative growth of eight plant pathogens at 223 60 μM[1]. Phosphatase-IN-1 shows attenuated inhibition on the Mopah1 mutant in comparison to the WT strain[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhao J, et al. Identification of propranolol and derivatives that are chemical inhibitors of phosphatidate phosphatase as potential broad-spectrum fungicides. Plant Commun. 2023 Aug 30:100679.

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