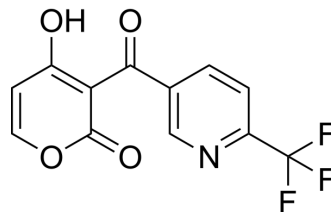


HPPD-IN-1

Cat. No.:	HY-155135
Molecular Formula:	C ₁₂ H ₆ F ₃ NO ₄
Molecular Weight:	285.18
Target:	HPPD
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HPPD-IN-1 (compound II-3) is a HPPD inhibitor. HPPD-IN-1 shows inhibitory activity of Arabidopsis thaliana HPPD (AtHPPD) with an IC ₅₀ value of 0.248 μM, which was superior to that of mesotrione (HY-12853) (0.283 μM) in vitro. HPPD-IN-1 shows excellent herbicidal activity against broadleaf and monocotyledonous weeds ^[1] .
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IC₅₀ & Target	IC ₅₀ : 0.248 μM (AtHPPD) ^[1]
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REFERENCES

[1]. Jiang ZB, et al. Design, synthesis and biological activity of novel triketone herbicides containing natural product fragments. Pestic Biochem Physiol. 2023 Aug;194:105493.

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

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