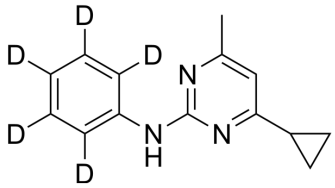
Cyprodinil-d_5

Cat. No.:	HY-116214S
CAS No.:	1773496-67-5
Molecular Formula:	$C_{14}H_{10}D_5N_3$
Molecular Weight:	230.32
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cyprodinil-$d_5$is the deuterium labeledCyprodinil(HY-116214)[1]. Cyprodinil is an anilinopyrimidine broad-spectrum fungicide that inhibits the biosynthesis of methionine in phytopathogenic fungi. Cyprodinil inhibits mycelial cell growth of B. cinerea, P. herpotrichoides, and H. oryzae on amino acid-free media (IC_{50}s=0.44, 4.8, and 0.03 μM, respectively). Cyprodinil acts as an androgen receptor (AR) agonist (EC_{50}=1.91 μM) in the absence of the AR agonist DHT and inhibits the androgenic effect of DHT (IC_{50}=15.1 μM)[2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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

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