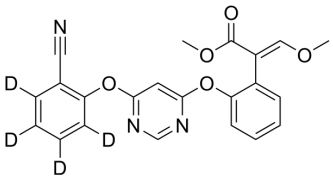
Azoxystrobin-d_4

Cat. No.:	HY-B0849S
CAS No.:	1346606-39-0
Molecular Formula:	$C_{22}H_{13}D_4N_3O_5$
Molecular Weight:	407.41
Target:	Fungal; Apoptosis; Reactive Oxygen Species; Isotope-Labeled Compounds
Pathway:	Anti-infection; Apoptosis; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Azoxystrobin-d_4 is deuterium labeled Azoxystrobin. Azoxystrobin is a broad-spectrum β-methoxyacrylate fungicide. Azoxystrobin inhibits mitochondrial respiration by binding to the Qo site of the cytochrome bc1 complex and inhibiting electron transfer. Azoxystrobin induces the production of reactive oxygen species (ROS) and induces cell apoptosis.
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;53(2):211-216.

[2]. Enock Mpofu, et al. Azoxystrobin amine: A novel azoxystrobin degradation product from Bacillus licheniformis strain TAB7. Chemosphere. 2021 Jun;273:129663.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA