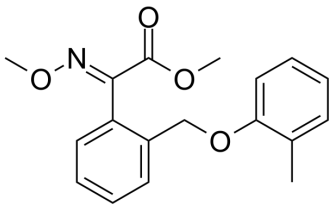
Kresoxim-methyl

Cat. No.:	HY-125776
CAS No.:	143390-89-0
Molecular Formula:	$C_{18}H_{19}NO_4$
Molecular Weight:	313.35
Target:	Fungal; Mitochondrial Metabolism
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Pure form -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Kresoxim-methyl (BAS 490 F), a Strobilurin-based fungicide, inhibits the respiration at the complex III (cytochrome bc1 complex). Kresoxim-methyl binds to complex III from yeast with an apparent K_d of 0.07 μM proving a high affinity for this enzyme[1][2].
In Vitro	Kresoxim-methyl affects antioxidant response, mitochondrial function and motility of neuroblastoma N2a cells upon 24h exposure[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Roehl F. Binding of BAS 490 F to bc1-complex from yeast. Biochem Soc Trans. 1994;22(1):64S.

[2]. Köhle H, et al. Biokinetic properties of BAS 490 F and some related compounds. Biochem Soc Trans. 1994;22(1):65S.

[3]. Flampouri E, et al. Strobilurin fungicide kresoxim-methyl effects on a cancerous neural cell line: oxidant/antioxidant responses and in vitro migration. Toxicol Mech Methods. 2018;28(9):709-716.

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