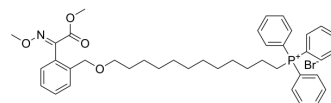


Antifungal agent 44

Cat. No.:	HY-151555
Molecular Formula:	C ₄₁ H ₅₁ BrNO ₄ P
Molecular Weight:	732.73
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antifungal agent 44 (compound 2A-5) is an antifungal agent, and shows excellent fungicidal activity superior to Kresoxim-methyl (HY-125776). Antifungal agent 44 shows fungicidal activity against <i>Phytophthora capsici</i> most remarkably, with an EC ₅₀ value of about 5 μM ^[1] .
In Vitro	<p>Antifungal agent 44 displays hyphal distortion, shrinkage, increased branching, and abnormal tip^[1].</p> <p>Antifungal agent 44 (70 μM; 3 h) causes <i>P. capsici</i> zoospore fragmentation^[1].</p> <p>Antifungal agent 44 (4.375-70 μM; 1 h) causes the death of <i>P. capsici</i> zoospores in a dose-dependent manner^[1].</p> <p>Antifungal agent 44 (3 h) inhibits ATP production in <i>P. capsici</i>^[1].</p> <p>Antifungal agent 44 (4.375 and 17.5 μM; 30 min) increases the intracellular ROS level of <i>P. capsici</i> in a dose-dependent manner^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Liu X, et al. Mitochondrion-Targeted Triphenylphosphonium-Based Kresoxim-Methyl Analogues: Synthesis, Fungicidal Activity, and Action Mechanism Approach. *J Agric Food Chem*. 2022 Oct 12.

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

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