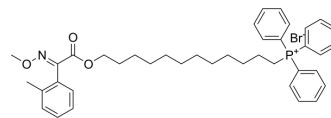


## Antifungal agent 45

Cat. No.:	HY-151556
Molecular Formula:	C <sub>40</sub> H <sub>49</sub> BrNO <sub>3</sub> P
Molecular Weight:	702.7
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

Antifungal agent 45 is with fungicidal activities. Antifungal agent 45 shows excellent characteristics superior to [Kresoxim-methyl](#) (HY-125776), in which the activity enhancement against *Phytophthora capsici* was the most remarkable, with an EC<sub>50</sub> value of about 5 μM<sup>[1]</sup>.

#### In Vitro

Antifungal agent 45 (compound 2C-4) results both hyphal and zoospore structures of the pathogens severely damaged<sup>[1]</sup>. Antifungal agent 45 causes a significant decrease in ATP synthesis and ROS outbreak<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### 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.**

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