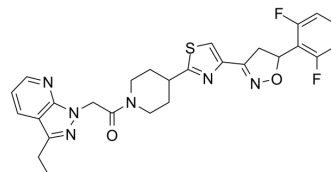


## Y18501

<b>Cat. No.:</b>	HY-155131
<b>CAS No.:</b>	2410627-32-4
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>26</sub> F <sub>2</sub> N <sub>6</sub> O <sub>2</sub> S
<b>Molecular Weight:</b>	536.6
<b>Target:</b>	Fungal
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Y18501 is a oxysterol-binding protein (OSBP) inhibitor with a similar structure to Oxathiapiprolin. Y18501 shows strong inhibitory activities against <i>Phytophthora</i> spp. and <i>Pseudoperonospora cubensis</i> , with EC <sub>50</sub> ranging from 0.0005 to 0.0046 μg/mL. Y18501 shows excellent protective and curative activities against <i>P. cubensis</i> . Y18501 in combination with Chlorothalonil (HY-N6625) can significantly promote the inhibition of <i>P. cubensis</i> <sup>[1]</sup> .
<b>In Vitro</b>	<p>Y18501 (at application rates of 25 g a.i./ha or 50 g a.i./ha) has over 60% control efficacy on cucumber downy mildew under the green house conditions<sup>[1]</sup>.</p> <p>Y18501 shows control efficacy against CDM in <i>P. cubensis</i> both in the green house and in the field, showing 72.3% and 78.9% control efficacy at an application rate of 25 g a.i./ha, as well as 80.8% and 82.2% control efficacy at an application rate of 50 g a.i./ha, respectively<sup>[1]</sup>.</p> <p>Y1850 (10.012-0.333 μg/mL) is greater than the curative activity, resulting in a control efficacy of 70.11–99.43% against CDM in <i>P. cubensis</i> when it is applied 24 h pre-inoculation, which is significantly higher than when applied 24 h post-inoculation<sup>[1]</sup>.</p> <p>Y18501 and Chlorothalonil (HY-N6625) (at the ratios of 1:100, 1:70, and 1:50) has a higher synergistic action against <i>P. cubensis</i>, with synergistic ratios of 2.00, 1.83, and 2.64, respectively<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

[1]. Wang B, et al. Activity of the new OSBP inhibitor Y18501 against *Pseudoperonospora cubensis* and its application for the control of cucumber downy mildew. *Pestic Biochem Physiol.* 2023;194:105415.

**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