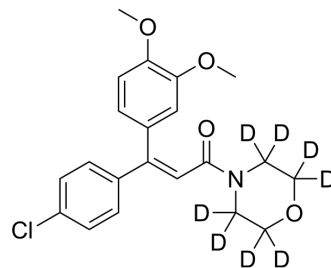


## Dimethomorph-d<sub>8</sub>

<b>Cat. No.:</b>	HY-B0846S
<b>CAS No.:</b>	1346606-71-0
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>14</sub> D <sub>8</sub> ClNO <sub>4</sub>
<b>Molecular Weight:</b>	395.91
<b>Target:</b>	Fungal; Androgen Receptor; Parasite
<b>Pathway:</b>	Anti-infection; Vitamin D Related/Nuclear Receptor
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Dimethomorph-d <sub>8</sub> is the deuterium labeled Dimethomorph[1]. Dimethomorph is a fungicide belongs to the fungicide group of sterol biosynthesis inhibitor. Dimethomorph can inhibit fungal cell wall formation. Dimethomorph also inhibits androgen receptor (AR) activity in MDA-kb2 cells with an IC <sub>20</sub> of 0.263 μM[2][3][4].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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 Feb;53(2):211-216.
- [2]. M E Matheron, et al. Impact of Azoxystrobin, Dimethomorph, Fluazinam, Fosetyl-Al, and Metalaxyl on Growth, Sporulation, and Zoospore Cyst Germination of Three *Phytophthora* spp. *Plant Dis*. 2000 Apr;84(4):454-458.
- [3]. Frances Orton, et al. Widely used pesticides with previously unknown endocrine activity revealed as in vitro antiandrogens. *Environ Health Perspect*. 2011 Jun119(6):794-800.
- [4]. Yigal Cohen,, et al. Differential Activity of Carboxylic Acid Amide Fungicides Against Various Developmental Stages of *Phytophthora infestans*. *Phytopathology*. 2007 Oct97(10):1274-83.

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

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