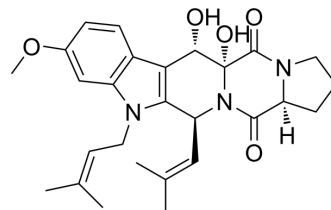


## Fumitremorgin B

Cat. No.:	HY-117313
CAS No.:	12626-17-4
Molecular Formula:	C <sub>27</sub> H <sub>33</sub> N <sub>3</sub> O <sub>5</sub>
Molecular Weight:	479.57
Target:	Fungal; Endogenous Metabolite
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Fumitremorgin B is a tremorgenic mycotoxin. Fumitremorgin B exhibits significant antifungal activities, with MICs of 6.25-50 µg/mL <sup>[1][2][3]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	funga <sup>[3]</sup>
<b>In Vitro</b>	<p>Fumitremorgin B (3 or 4 days) inhibits the proliferation of U937 and PC3 cells, with IC<sub>50</sub> of 14.12 and 43.36 µM, respectively<sup>[2]</sup>.</p> <p>Fumitremorgin B exhibits antifungal activities against the phytopathogenic fungi <i>B. cinerea</i>, <i>A. solani</i>, <i>A. alternata</i>, <i>C. gloeosporioides</i>, <i>F. solani</i>, <i>F. oxysporum</i> f. sp. <i>niveum</i>, <i>F. oxysporum</i> f. sp. <i>vasinfectum</i>, and <i>G. saubinettii</i>, with MICs of 6.25-50 µg/mL<sup>[3]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### REFERENCES

- [1]. Li SM, et, al. Genome mining and biosynthesis of fumitremorgin-type alkaloids in ascomycetes. *J Antibiot (Tokyo)*. 2011 Jan;64(1):45-9.
- [2]. Wang Y, et, al. 2,5-diketopiperazines from the marine-derived fungus *Aspergillus fumigatus* YK-7. *Chem Biodivers*. 2012 Feb;9(2):385-93.
- [3]. Li XJ, et, al. Metabolites from *Aspergillus fumigatus*, an endophytic fungus associated with *Melia azedarach*, and their antifungal, antifeedant, and toxic activities. *J Agric Food Chem*. 2012 Apr 4;60(13):3424-31.

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

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