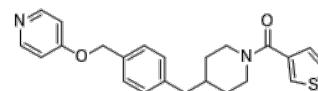


**Product Name** : MBX-7591  
**Cat. No.** : PC-22712  
**CAS No.** : 2096324-50-2  
**Molecular Formula** :  $C_{23}H_{24}N_2O_2S$   
**Molecular Weight** : 392.52  
**Target** : Fungal  
**Solubility** : 10 mM in DMSO



CAS: 2096324-50-2

## Biological Activity

MBX-7591 is a nonspirocyclic piperidine **antifungal** agent with MIC of 1.2  $\mu$ M for *A. fumigatus*, shows promising antifungal activity against *Aspergillus fumigatus* and other pathogenic fungi, including strains resistant to triazoles.

MBX-7591 exhibits synergy with triazole antifungal drugs and activity against pan-azole-resistant *A. fumigatus* isolates. MBX-7591 has additional potent activity against *Rhizopus* species and CO<sub>2</sub>-dependent activity against *Cryptococcus neoformans*.

MBX-7591 increases cell membrane saturation by decreasing oleic acid content.

MBX-7591 has low toxicity in vivo and shows good efficacy in decreasing fungal burden in a murine model of invasive pulmonary aspergillosis.

## References

Gutierrez-Perez C, et al. **mBio**. 2024 Jul 17;15(7):e0116624.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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