

# Micafungin (sodium)

Catalog No: tcsc1504



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



## Specifications

**CAS No:**

208538-73-2

**Formula:**

$C_{56}H_{70}N_9NaO_{23}S$

**Pathway:**

Anti-infection

**Target:**

Fungal

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 32$  mg/mL (24.76 mM)

**Alternative Names:**

FK 463

**Observed Molecular Weight:**

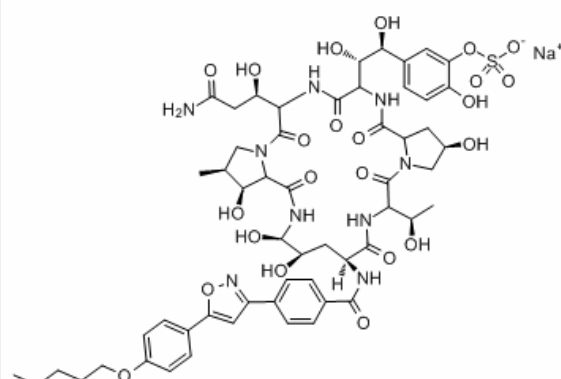
1292.26

## Product Description

Micafungin (sodium) is an inhibitor of 1, 3-beta-D-glucan synthesis, and used as an antifungal drug.

***In Vitro:*** Micafungin (10 mg/mL) phenotypically decreases the formation of biofilm in most of the isolates. For all the genes tested, the levels of mRNA transcription are also decreased significantly in micafungin-treated samples cf. their untreated counterparts<sup>[1]</sup>. The combination of micafungin and KB425796-C is fungicidal and markedly reduces the number of CFU, in contrast to the fungistatic effects (no reduction in CFU) observed at all examined time points when each drug is used alone<sup>[2]</sup>.

***In Vivo:*** Micafungin (1 mg/kg) significantly prolongs survival compared with mice administered saline. Animals given a combination of micafungin (0.1 mg/kg) and KB425796-C (32 mg/kg) show a trend towards prolonged survival in comparison with those treated with micafungin (0.1 mg/kg) alone. In the livers of micafungin-treated mice, the number of CFUs decreases, although the clearance effect is less than that found in the kidneys. Combination treatment with micafungin and KB425796-C results in a significant decrease in the number of CFUs compared with the treatment with micafungin alone at all examined doses. The clearance effect associated with KB425796-C in combination with micafungin is greater than that observed in AMPH-treated animals<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!