Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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 : ≥ 32 mg/mL (24.76 mM)

Alternative Names:
FK 463

Observed Molecular Weight:
1292.26

Product Description

Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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

In Vitro: Micafungin (10 mg/mL) phenotypicly 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[1]. 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[2].

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[2].