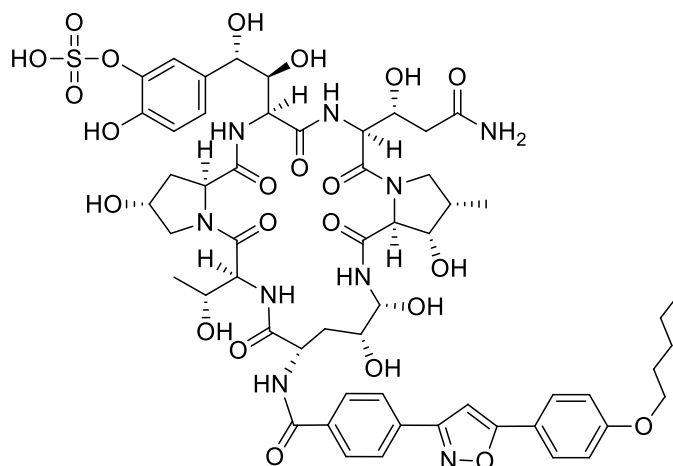


Micafungin

Code No.: **BIA-M1422**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	: 235114-32-6
Molecular Formula	: C₅₆H₇₁N₉O₂₃S
Molecular Weight	: 1270.3
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Moderate water solubility.

Application Notes

Micafungin is a semi-synthetic cyclic lipopeptide belonging to the echinocandin class that was reported in 1999 from Fujisawa in Japan. Unlike other marketed semi-synthetic derivatives in this class, micafungin is not derived from echinocandin but rather from FR901379 which contains a phenolic sulfate to enhance aqueous solubility, a serious limitation in the class. Micafungin inhibits the synthesis of β -(1,3)-D-glucan, an essential component of the cell wall of susceptible fungi and is extensively referenced in the literature with over 700 citations.

References

1. FK463, a novel water-soluble echinocandin lipopeptide: Synthesis and antifungal activity. Tomishima M. et al., J. Antibiot. 1999, 52, 674.
2. In vitro activities of a new lipopeptide antifungal agent, FK463, against a variety of clinically important fungi. Tawara S. et al., Antimicrob. Agents Chemother. 2000, 44, 57.