

Product Name:	Micafungin
Product Number:	M044
CAS Number:	235114-32-6
Molecular Formula:	C ₅₆ H ₇₁ N ₉ O ₂₃ S
Molecular Weight:	1270.3
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>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.</p> <p>Micafungin is soluble in ethanol, methanol, DMF or DMSO. Moderate water solubility.</p>
Mechanism of Action:	<p>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.</p>
References:	<p>FK463, a novel water-soluble echinocandin lipopeptide: Synthesis and antifungal activity. Tomishima M. et al. J. Antibiot. 1999, 52, 674.</p> <p>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.</p>