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Micafungin Sodium

National Cancer Institute

Source

National Cancer Institute. *Micafungin Sodium*. NCI Thesaurus. Code C66145.

The sodium salt form of micafungin, a semi-synthetic echinocandin derived from a natural product of the fungus *Coleophoma empetri* with antifungal activity. Micafungin, like other cyclic lipopeptides, noncompetitively inhibits the fungal specific enzyme 1,3-beta-D-glucan synthase, an enzyme essential for the synthesis of the important fungal cell wall component 1,3-beta-D-glucan. By preventing the synthesis of 1,3-beta-D-glucan, the cell wall is weakened which leads to osmotic lysis and eventually fungal cell death.