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# Micafungin

National Cancer Institute

## Source

National Cancer Institute. *Micafungin*. NCI Thesaurus. Code C1850.

A semi-synthetic echinocandin derived from a natural product of the fungus *Coleophoma empedri* with potent antifungal activity. Micafungin, like other cyclic lipopeptides, noncompetitively inhibits the fungal specific enzyme 1,3-beta-D-glucan synthase, an enzyme essential for fungal cell wall synthesis. Inhibition of this enzyme weakens of the cell wall, thereby leading to osmotic lysis and eventually, fungal cell death.