



Amphotericin B

A macrocycle antibiotic, active against fungi

Amphotericin B is a strong antifungal agent. Since it has activity against a variety of fungal strains, it finds uses in microbiology research. This antifungal is an amphipathic fermentation product of the Gram-positive *Streptomyces nodosus* bacteria. Amphotericin B is a member of the polyene antifungal class.

These polyene antifungals work by targeting ergosterol, which is an essential part of the cell membrane of fungi. When amphotericin B binds to ergosterol, pores in the membrane are created. Crucial ions leak out of these pores, which leads to the death of fungal cells.

Cat. Number	AS-2002
CAS Number	1397-89-3
MDL Number	MFCD00877763
Molecular Weight	924.10 g/mol
Molecular Formula	C ₄₇ H ₇₃ NO ₁₇
Storage Temperature	4°C
Form and Color	Powder, Yellow to Orange
Assay (on dry basis)	min. 750 IU/mg
Loss on Drying	max. 5.0 %
FT-IR Spectrum	corresponds to reference spectrum