Amphotericin B

Code No.: BIA-A1441
Pack sizes: 5 mg, 25 mg

Synonyms: Amphotericin

Specifications
CAS #: 1397-89-3
Molecular Formula: C_{47}H_{73}NO_{17}
Molecular Weight: 924.1
Source: Streptomyces sp.
Appearance: Yellow solid
Purity: >99% by HPLC
Long Term Storage: -20°C
Solubility: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes
Amphotericin B is heptaene polyene antifungal originally discovered as a metabolite of Streptomyces nodosus in 1956. Amphotericin B acts by binding sterols in the cell membrane leading to the formation of transmembrane channels and subsequent ion leakage. Amphotericin B is poorly water soluble so has been developed for therapeutic use as a complex with desoxylate or in liposomes to improve bioavailability. Amphotericin B is widely used as a research reagent in diverse applications with over 15,000 literature citations.

References