

## Amphotericin B

**Cat:** A8251

**Specification:** 100mg

**Storage:** Store at 2-8°C, protected from light and moisture, sealed and dried. Valid for 3 years.

### Product Information

**CAS:** 1397-89-3

**Molecular Formula:** C<sub>47</sub>H<sub>73</sub>NO<sub>17</sub>

**Molecular Weight:** 924.08

**Appearance (Character):** Yellow to orange powder

**Solubility:** Soluble in DMSO(5mg/ml); Slightly soluble in dimethylformamide and extremely slightly soluble in methanol; Insoluble in water, anhydrous ethanol, trichloromethane or ether.

**Density:** 1.34 g/cm<sup>3</sup> (forecast)

### IC50:

Trichophyton mentagrophytes:IC50 = 0.02 µg/ml

Leishmania donovani:IC50 = 0.06 µg/ml

Candida albicans:EC50= 0.25 µg/ml

Median lethal dose (LD50) orally (rats) > 5,000 mg/kg

Amphotericin is a polyene antibiotic produced by *Streptomyces nodosus* (M4575). Amphotericin contains two components, A and B. The A component is less toxic and has a weak antifungal effect, so it is not used in the clinic, while the B component has a strong effect and is called amphotericin B. Amphotericin B is a polyene antifungal antibiotic, which inhibits the growth of fungi by affecting the permeability of cell membranes. It is clinically used to treat severe visceral or systemic infections caused by deep fungi. The product has a strong inhibition or killing effect on a variety of fungal infections, such as *Cryptococcus neoformans*, *Candida albicans*, *Histoplasma capsulatum*, *Blastomycosis dermatitidis*, *Sporotrichia Schenckii*, *Mucor* and *Coccidioides immitis*. It is mainly used as the first choice for deep fungal diseases.

### Note

1. Unless otherwise specified, the biochemical reagents produced by our company are generally non-sterile packaged. If they are to be used for cell experiments, please conduct pretreatment in advance.
2. Once dissolved, please store the solution in separate containers to avoid product degradation caused by repeated freezing and thawing.
3. The product information is for reference only. If you have any questions, please call 400-968-6088 for consultation.
4. The products are all for scientific research use only. Do not use it for medical, clinical diagnosis or treatment, food and cosmetics, etc. Do not store them in ordinary residential areas.
5. For your safety and health, please wear laboratory clothes, disposable gloves and masks to operate.