



Product Information

Product ID A5130

CAS No. 1397-89-3

Chemical Name

Synonym Ampho-Moronal, Fungilin, Fungizone

Formula C₄₇H₇₃NO₁₇

Formula Wt. 924.08

Melting Point >170 °C (dec)

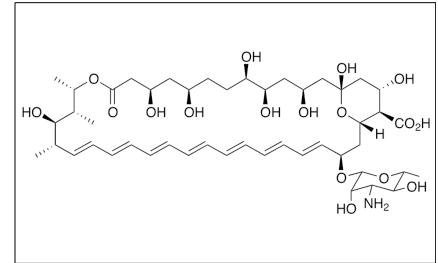
Purity ≥90%

Solubility Soluble in DMSO (30
-40mg/mL), DMF(2
-4mg/mL) or water (pH 2 or
11).

Store Temp -20 °C

Ship Temp Ambient

Description Amphotericin B is a polyene antifungal compound that increases levels of ROS and forms pores or channels in membranes by binding membrane sterols. Amphotericin B induces iNOS, activates astrocytes, and increases expression of IL-1β, TNF-α, BDNF, and GDNF, displaying potential neuroprotective activity and therapeutic effects in models of prion diseases.



Bulk quantities available upon request

Product ID	Size
A5130	100 mg
A5130	250 mg
A5130	500 mg
A5130	1 g

References Serhan G, Stack CM, Perrone GG, et al. The polyene antifungals, amphotericin B and nystatin, cause cell death in *Saccharomyces cerevisiae* by a distinct mechanism to amphibian-derived antimicrobial peptides. *Ann Clin Microbiol Antimicrob.* 2014 May 12;13:18. PMID: 24884795.

Nakagawa Y, Umegawa Y, Takano T, et al. Effect of sterol side chain on ion channel formation by amphotericin B in lipid bilayers. *Biochemistry.* 2014 May 20;53(19):3088-94. PMID: 24762132.

Motoyoshi-Yamashiro A, Tamura M, Moriyama M, et al. Activation of cultured astrocytes by amphotericin B: stimulation of NO and cytokines production and changes in neurotrophic factors production. *Neurochem Int.* 2013 Aug;63(2):93-100. PMID: 23727061.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.