Phone: 888-558-5227

651-644-8424 Email: getinfo@lktlabs.com

888-558-7329 Fax:

Web: lktlabs.com

Product Information

Product ID C0274

CAS No. 179463-17-3

Chemical Name

Synonym Caspofungin Acetate, MK-0991

Formula C₅₂H₈₈N₁₀O₁₅ • C₄H₈O₄

Formula Wt. 1213.42 Melting Point 204-206°C

Purity ≥95%

Solubility Soluble in ethanol (20

mg/mL), DMSO (25 mg/mL), DMF (20 mg/mL), water (10

mg/mL), methanol.

Store Temp -20°C Ship Temp Ambient

Description Caspofungin acetate is a lipopeptide antifungal that inhibits the enzyme 1,3-8-Glucan synthase, which synthesizes 8-glucan

polymers that form fungal cell walls. Caspofungin acetate is active against a variety of Aspergillus and Candida species and unlike many antifungals, is not metabolized by the cytochrome p450 system. The ability of caspofungin acetate to inhibit Bglucan synthesis decreases cell wall mechanical strength, alters cell surface hydrophobicity, and triggers cell aggregation.

Bulk quanitites available upon request

| Product ID | Size |
|------------|--------|
| C0274 | 5 mg |
| C0274 | 25 mg |
| C0274 | 100 mg |

References El-Kirat-Chatel S, Beaussart A, Alsteens D, et al. Nanoscale analysis of caspofungin-induced cell surface remodelling in Candida albicans. Nanoscale. 2013 Feb 7;5(3):1105-15. PMID: 23262781.

> Pacetti SA, Gelone SP. Caspofungin acetate for treatment of invasive fungal infections. Ann Pharmacother. 2003 Jan;37(1):90 -8. PMID: 12503942.

> Mio T, Adachi-Shimizu M, Tachibana Y, et al. Cloning of the Candida albicans homolog of Saccharomyces cerevisiae GSC1/FKS1 and its involvement in beta-1,3-glucan synthesis. J Bacteriol. 1997 Jul;179(13):4096-105. PMID: 9209021.

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