

PRODUCT DATA SHEET

Caspofungin acetate

Code: **BIA-C1239**

Pack sizes: 1 mg, 5 mg

Synonyms : Cancidas, L-743,872, MK-0991

Specifications

CAS # : 179463-17-3

Molecular Formula : C₅₆H₉₆N₁₀O₁₅O₁₉

Molecular Weight : 1213.4

Source : Semi-synthetic
Appearance : White powder
Purity : > 99% by HPLC

Storage : -20°C

Solubility : Soluble in water and methanol or DMSO. Slightly soluble in ethanol.

Application Notes

Caspofungin is a semi-synthetic analogue of pneumocandin B0 with improved water solubility, a significant limitation in the development of the echinocandin class as pharmaceuticals. Caspofungin acts by inhibition of the synthesis of $\[mathbb{B}\]$ (1,3)-D-glucan, an essential component of the cell wall of susceptible fungi.

References

- 1. Synthesis and antifungal activity of novel cationic pneumocandin Bo derivatives. Bouffard F. A. et al. 1994. J. Med. Chem. 1994, 37, 222.
- 2. The fungal cell wall as a drug discovery target: SAR of novel echinocandin analogs. Balkovec J. M. Pharmacochemistry Library 1997, 28, 1.
- 3. *In vitro* preclinical evaluation studies with the echinocandin antifungal MK-0991 (L-743,872). Bartizal K. et al. Antimicrob. Agents Chemother. 1997, 41, 2326.
- Evaluation of the echinocandin antifungal MK-0991 (L-743,872): Efficacies in mouse models of disseminated aspergillosis, candidiasis, and cryptococcosis. Abruzzo G.K. Antimicrob. Agents Chemother. 1997, 41, 2333.
- 5. Preliminary animal pharmacokinetics of the parenteral antifungal agent MK-0991 (L-743872). Hajdu R. et al. Antimicrob. Agents Chemother. 1997, 41, 2339.