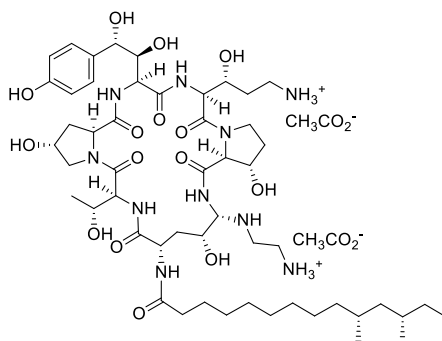


## Caspofungin acetate

Code No.: **BIA-C1239**

Pack sizes: **1 mg, 5 mg**



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

## Specifications

CAS #	: <b>179463-17-3</b>
Molecular Formula	: <b>C<sub>52</sub>H<sub>88</sub>N<sub>10</sub>O<sub>15</sub>•2C<sub>2</sub>H<sub>4</sub>O<sub>2</sub></b>
Molecular Weight	: <b>1213.4</b>
Source	: <b>Semi-synthetic</b>
Appearance	: <b>White powder</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in water and methanol or DMSO. Slightly soluble in ethanol.</b>

## 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 inhibiting the synthesis of β-(1,3)-D-glucan, an essential component of the cell wall of susceptible fungi.

## References

1. Synthesis and antifungal activity of novel cationic pneumocandin B0 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.
4. 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.