Product Data Sheet

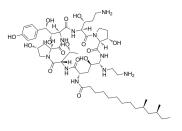
Caspofungin

Cat. No.: HY-17006A CAS No.: 162808-62-0 Molecular Formula: $C_{52}H_{88}N_{10}O_{15}$ Molecular Weight: 1093.31

Antibiotic; Fungal; Bacterial Target:

Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of



BIOLOGICAL ACTIVITY

In Vivo

Description Caspofungin is a potent antifungal agent. Caspofungin inhibits the synthesis of the fungal cell wall component β -(I,3)-Dglucan[1][2].

Caspofungin (1-8 mg/kg; i.p.; daily, for 7 days) is able to penetrate the CNS in mice and achieve concentrations that result in the reduction of Candida burden in the $brain^{[1]}$.

Caspofungin (0.41-41 µM; i.p.; for 5 weeks; male C57BL/6 mice) is a safe antifungal agent at vitreal concentrations of 0.41 to 4.1 μ M in mice^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Complement component 5-deficient DBA/2N mice ^[1]
Dosage:	1, 2, 4 and 8 mg/kg
Administration:	Intraperitoneal injection; daily, for 7 days.
Result:	Reduced the concentration of Candida load in the brain.
Animal Model:	Male C57BL/6 mice ^[2]
Dosage:	0.41, 1.2, 2.5, 4.1, and 41 μM
Administration:	Intraperitoneal injection; for 5 weeks
Result:	Had nonsignificant alterations in their ERG waveforms from 0.41 to 4.1 μM.

CUSTOMER VALIDATION

- EMBO Rep. 2022 Apr 11;e53932.
- Cell Physiol Biochem. 2016 Aug 12;39(3):939-949.

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REFERENCES

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