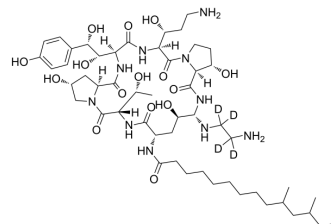


Caspofungin-d₄

Cat. No.:	HY-17006AS
CAS No.:	1131958-73-0
Molecular Formula:	C ₅₂ H ₈₄ D ₄ N ₁₀ O ₁₅
Molecular Weight:	1097.34
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Caspofungin-d ₄ (MK-0991-d ₄ ; L-743872-d ₄) is a deuterium labeled Caspofungin (HY-17006A). Caspofungin is a potent antifungal agent. Caspofungin inhibits the synthesis of the fungal cell wall component β-(1,3)-D-glucan ^{[1][2][3]} .
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-246.
- [2]. Flattery AM, et, al. Efficacy of caspofungin in a juvenile mouse model of central nervous system candidiasis. *Antimicrob Agents Chemother*. 2011 Jul;55(7):3491-7.
- [3]. Mojumder DK, et, al. Evaluating retinal toxicity of intravitreal caspofungin in the mouse eye. *Invest Ophthalmol Vis Sci*. 2010 Nov;51(11):5796-803.

Caution: Product has not been fully validated for medical applications. For research use only.

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