

Aminocandin

Cat. No.:	HY-P0068
CAS No.:	227472-48-2
Molecular Formula:	C ₅₆ H ₇₉ N ₉ O ₁₄
Molecular Weight:	1102.28
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Aminocandin (HMR 3270) is water-soluble antifungal agent of the echinocandin class with excellent activity against <i>Aspergillus</i> and <i>Candida</i> spp. ^[1] .									
IC₅₀ & Target	Fungal ^[1]									
In Vitro	Aminocandin (HMR 3270) inhibits Fluconazole (HY-B0101)-resistant <i>C. albicans</i> strain MRL 648 with an MIC of 0.25 mg/L ^[2] . Aminocandin shows half-life of 48-58 h ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.									
In Vivo	<p>Aminocandin (1-10 mg/kg; i.v. or i.p.; once daily for 11 days) is highly effective in reducing mortality and organ burden in disseminated infection caused by ITC-susceptible and -resistant <i>A. fumigatus</i> in mice^[1].</p> <p>Aminocandin (5 and 10 mg/kg; i.v.; once or twice a week for 4 weeks) is an effective addition to the arsenal of antifungal compounds for the treatment of candidiasis caused by Fluconazole (HY-B0101)-resistant <i>C. albicans</i> in immunocompetent mice^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>Immunosuppressed male CD1 mice, <i>Aspergillus fumigatus</i> infection model^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10, 5, 1 and 0.25 mg/kg (IV) or 1 mg/kg (IP)</td> </tr> <tr> <td>Administration:</td> <td>IV or IP, once daily for 11 days</td> </tr> <tr> <td>Result:</td> <td>Increased the survival rate, 5 mg/kg i.v. yielded 100% survival following infection with AF91.</td> </tr> </table>		Animal Model:	Immunosuppressed male CD1 mice, <i>Aspergillus fumigatus</i> infection model ^[1]	Dosage:	10, 5, 1 and 0.25 mg/kg (IV) or 1 mg/kg (IP)	Administration:	IV or IP, once daily for 11 days	Result:	Increased the survival rate, 5 mg/kg i.v. yielded 100% survival following infection with AF91.
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REFERENCES

[1]. Warn PA, et al. Activity of aminocandin (IP960; HMR3270) compared with amphotericin B, itraconazole, caspofungin and micafungin in neutropenic murine models of disseminated infection caused by itraconazole-susceptible and -resistant strains of *Aspergillus fumigatus*. *Int J Antimicrob Agents*. 2010 Feb;35(2):146-51.

[2]. Ghannoum MA, et al. Efficacy of aminocandin in the treatment of immunocompetent mice with haematogenously disseminated fluconazole-resistant candidiasis. *J Antimicrob Chemother*. 2007 Mar;59(3):556-9.

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

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