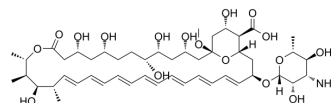


Amphotericin X1

Cat. No.:	HY-136153
CAS No.:	136135-57-4
Molecular Formula:	C ₄₈ H ₇₅ NO ₁₇
Molecular Weight:	938.11
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Amphotericin X1 is an 13-O-methyl derivative of Amphotericin B with good antifungal activity. Amphotericin X1 inhibits <i>Candida albicans</i> 33/079, <i>C.parapsilosis</i> 937A, <i>Cryptococcus neoformans</i> 451, <i>Aspergillus niger</i> 57A and <i>A.fumigatus</i> with MIC values of 1 µg/mL, 8 µg/mL, 1 µg/mL, 2 µg/mL and 2 µg/mL, respectively ^[1] .
IC₅₀ & Target	MIC: 1 µg/mL (<i>Candida albicans</i> 33/079), 8 µg/mL (<i>C.parapsilosis</i> 937A), 1 µg/mL (<i>Cryptococcus neoformans</i> 451), 2 µg/mL (<i>Aspergillus niger</i> 57A) and 2 µg/mL (<i>A.fumigatus</i>) ^[1]
In Vitro	Amphotericin X1 (compound 4) shows interesting antifungal activity combined with a pronounced reduction in haemolytic activity (EH ₅₀ of 42 µg/mL) against mammalian erythrocytes in vitro ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Taylor AW, et al. Synthesis and antifungal selectivity of new derivatives of amphotericin B modified at the C-13 position. *J Antibiot (Tokyo)*. 1993 Mar;46(3):486-93.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA