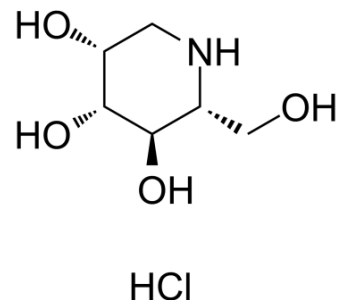


1-Deoxymannojirimycin hydrochloride

Cat. No.:	HY-W009783
CAS No.:	73465-43-7
Molecular Formula:	C ₆ H ₁₄ ClNO ₄
Molecular Weight:	199.63
Target:	HIV; Influenza Virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1-Deoxymannojirimycin hydrochloride is a selective class I α 1,2-mannosidase inhibitor with an IC ₅₀ of 20 μ M. 1-Deoxymannojirimycin hydrochloride is also a N-linked glycosylation inhibitor and inhibits HIV-1 strains. 1-Deoxymannojirimycin hydrochloride has antiviral activity ^{[1][2]} .
IC₅₀ & Target	IC ₅₀ : 20 μ M (α 1,2-mannosidase I) ^[1] N-linked glycosylation ^[2] HIV-1 ^[2]

REFERENCES

- [1]. F Vallee, et al. Structural Basis for Catalysis and Inhibition of N-glycan Processing Class I Alpha 1,2-mannosidases. *J Biol Chem.* 2000 Dec 29;275(52):41287-98.
- [2]. Jan Balzarini, et al. The alpha(1,2)-mannosidase I Inhibitor 1-deoxymannojirimycin Potentiates the Antiviral Activity of Carbohydrate-Binding Agents Against Wild-Type and Mutant HIV-1 Strains Containing Glycan Deletions in gp120. *FEBS Lett.* 2007 May 15;581(10):2060-4.

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

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