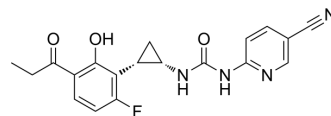


MIV-150

Cat. No.:	HY-19378
CAS No.:	231957-54-3
Molecular Formula:	C ₁₉ H ₁₇ FN ₄ O ₃
Molecular Weight:	368.36
Target:	HIV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MIV-150 is a nonnucleoside reverse transcriptase (NNRT) inhibitor, blocking HIV-1 and HIV-2 infections, with an EC ₅₀ <1 nM against HIV-1/HIV-2 _{MN} .	
IC₅₀ & Target	HIV-1 <1 nM (EC ₅₀)	HIV-2 <1 nM (EC ₅₀)
In Vitro	<p>The activity of MIV-150 to protect target cells from infection is assayed using a syncytial assay. The EC₅₀ of MIV-150 against HIV-1MN in CEM.SS cells is below 1 nM. These data are in agreement with the findings of Medivir. MIV-150 effectively inactivated free virus with an EC₅₀ of 0.004 µg/mL (or 0.01 µM). It is demonstrated MIV-150 is highly effective against HIV and that the drug blocks viruses that are resistant to other marketed HIV antiretrovirals such as Nevirapine, Delavirdine, and Efavirenz. In addition, resistance to MIV-150 develops more slowly than to other anti-HIV drugs tested. For example, in vitro studies demonstrate that resistance development in the presence of nevirapine and delavirdine takes only 4 to 5 weeks compared with 45 weeks in the presence of MIV-150^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

[1]. Fernández-Romero JA, et al. Carrageenan/MIV-150 (PC-815), a combination microbicide. Sex Transm Dis. 2007 Jan;34(1):9-14.

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

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