## **Reverse transcriptase-IN-3**

Cat. No.:	HY-151938	O <sub>N</sub> , NH
Molecular Formula:	C <sub>28</sub> H <sub>31</sub> N <sub>7</sub> O <sub>4</sub> S	
Molecular Weight:	561.66	
Target:	HIV	N NH
Pathway:	Anti-infection	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	S N N N

BIOLOGICAL ACTIVITY						
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Description	Reverse transcriptase-IN-3 is a pyrimidine-5-carboxamide derivative, acts as an inhibitor of HIV-1. Reverse transcriptase-IN-3 shows potent activity against the HIV-1 wild-type and mutant strains <sup>[1]</sup> .					
IC <sub>50</sub> & Target	HIV (IIIB) 8 nM (EC50)	HIV-1 (L100I) 65 nM (EC50)	HIV-1 (K103N) 9 nM (EC50)	HIV-1 (Y181C) 45 nM (EC50)		
	HIV-1 (Y188L) 35 nM (EC50)	HIV-1 (E138K) 0.734 μΜ (EC50)	HIV-1 (F227L+V106A) 34 nM (EC50)	HIV-1 (RES056) 42 nM (EC50)		
In Vitro	Reverse transcriptase-IN-3 (compound 21c) exhibits the most potent activity (EC <sub>50</sub> =0.009-0.065 μM) against HIV-1 IIIB (8 nM), L100I (65 nM), K103N (9 nM), Y181C (45 nM), Y188L (35 nM), and RES056 (42 nM), being comparable of <u>Etravirine</u> (HY-90005) <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					

## REFERENCES

[1]. Feng D, et al. Disubstituted pyrimidine-5-carboxamide derivatives as novel HIV-1 NNRTIS: Crystallographic overlay-based molecular design, synthesis, and biological evaluation. Eur J Med Chem. 2022 Nov 22;246:114957.



 $O NH_2$ 

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

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