DENV-IN-6

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-143273 2375780-95-1 C ₂₃ H ₂₆ CIFN ₄ OS 461 HIV; DNA/RNA Synthesis Anti-infection; Cell Cycle/DNA Damage Please store the product under the recommended conditions in the Certificate of	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

SIOLOGICAL ACTIV			
Description	DENV-IN-6 is a potent DENV (I-IV) inhibitor with EC ₅₀ s of 17.5, 13.20, 6.8 and 11.41 μM for the inhibition of DENV (I-IV) replication, respectively. DENV-IN-6 also exhibits activity of anti-HIV-1 _{IIIB} (EC ₅₀ =0.0181 μM; CC ₅₀ =64.92 μM) ^[1] .		
C ₅₀ & Target	HIV (IIIB)		
n Vitro	DENV-IN-6 (compound 4a) (0.04, 0.2, 1, 5, 25 μM; 5 days) shows inhibitory effect on replication of DENV (I-IV) in a dose- dependent manner (EC ₅₀ s=17.5, 13.20, 6.8 and 11.41 μM, respectively) ^[1] . DENV-IN-6 (25 μM; 5 days) shows low toxic to Vero cells (CC ₅₀ ⊠200 μM) and exhibits stronger inhibitory effect on DENV-III than on DENV-I, II, IV with a TI value is greater than 29.41 (Therapeutic index (TI): ratio CC ₅₀ /IC ₅₀) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]		
	Cell Line:	Vero cells	
	Concentration:	0.04, 0.2, 1, 5, 25 μM	
	Incubation Time:	5 days	
	Result:	Surpressed replication of DENV (I-IV) in a dose-dependent manner and with $EC_{50}s$ of 17.5, 13.20, 6.8 and 11.41 μM , respectively.	
	Cell Cytotoxicity Assay ^[1]		
	Cell Line:	Vero cells	
	Concentration:	25 μΜ	
	Incubation Time:	5 days	
	Result:	Exhibited low toxic to Vero cells with a CC ₅₀ value was greater than 200 μM. Showed stronger inhibitory effect on DENV-III than on DENV-I, II, IV (Therapeutic index (TI) values of DENV (I-IV):⊠11.43, ⊠15.15, ⊠29.41, ⊠17.53).	

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REFERENCES

[1]. Rui RM, et al. C6-structural optimizations of 2-aryl-1H-pyrazole-S-DABOs: From anti-HIV to anti-DENV activity. Bioorg Chem. 2022 Feb;119:105494.

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

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