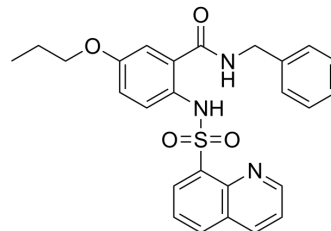


DENV-IN-10

Cat. No.:	HY-149251
Molecular Formula:	C ₂₆ H ₂₅ N ₃ O ₄ S
Molecular Weight:	475.56
Target:	Flavivirus; Dengue virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	DENV-IN-10 is a potent tetravalent dengue inhibitor, with EC ₅₀ s of 1.36, 0.87, 0.94, and 0.95 μM against DENV-1-4 serotypes, respectively. DENV-IN-10 is a post-entry replication inhibitor that appears to be specific for cells of primate origin ^[1] .
In Vitro	<p>DENV-IN-10 (compound 26) (10 μM; added either prior to DENV infection, during infection (0 h) or at different time points post-infection (2, 6, 12, 24 hpi)) exhibits no significant antiviral activity after pre- and co-treatment and reduces the level of infectious viral particles at 2 h post-infection and remained effective even when added at 24 h post-infection^[1].</p> <p>DENV-IN-10 (10 μM; 24-60 h) reduces the viral RNA copy numbers and the expression of viral proteins NS3 and NS5 in Huh-7 cells infected with DENV-2^[1].</p> <p>DENV-IN-10 (0.1-20 μM) significantly inhibits DENV-2 replication in primate cell lines but EC₅₀s are higher in mosquito cells and baby hamster kidney cells^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Felicetti T, et, al. Functionalized sulfonyl anthranilic acid derivatives inhibit replication of all the four dengue serotypes. Eur J Med Chem. 2023 Apr 5;252:115283.

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

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