

DENV-IN-10

Chemical Properties

CAS No. :

Formula: C₂₆H₂₅N₃O₄S

Molecular Weight: 475.56

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	DENV-IN-10 is a potent tetravalent inhibitor of the dengue virus, with half-maximal effective concentrations (EC ₅₀ s) of 1.36, 0.87, 0.94, and 0.95 μ M against DENV-1, DENV-2, DENV-3, and DENV-4 serotypes, respectively. Functioning as a post-entry replication inhibitor, DENV-IN-10 demonstrates specificity for primate-origin cells [1].
Targets(IC ₅₀)	Anti-infection,Others
In vitro	DENV-IN-10 (10 μ M; administered 2, 6, 12, 24 h before or after DENV infection) exhibited no significant antiviral activity when applied either before or immediately after infection. However, its addition 2 hours post-infection reduced infectious virus particle levels, and it remained effective even when administered 24 hours after infection [1]. DENV-IN-10 (10 μ M; 24-60 h) decreased viral RNA copy numbers and the expression of DENV-2 viral proteins NS3 and NS5 in infected Huh-7 cells [1]. DENV-IN-10 in a concentration range of 0.1-20 μ M significantly inhibited the replication of DENV-2 in primate cell lines, although it showed higher EC ₅₀ values in mosquito cells and young

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1028 mL	10.5139 mL	21.0278 mL
5 mM	0.4206 mL	2.1028 mL	4.2056 mL
10 mM	0.2103 mL	1.0514 mL	2.1028 mL
50 mM	0.0421 mL	0.2103 mL	0.4206 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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