

CHIKV-IN-3

Chemical Properties

CAS No. :

Formula: C₂₄H₃₀ClNO

Molecular Weight: 383.95

Keep away from moisture

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	CHIKV-IN-3 is a potent inhibitor effective against two low-passage CHIKV strains, with EC ₅₀ values of 1.55 μM for CHIKV-122508 and 0.14 μM for CHIKV-6708, respectively. It targets host cells to disrupt viral replication while maintaining minimal cytotoxic liability (CC ₅₀ > 100 μM). Additionally, CHIKV-IN-3 has shown a prophylactic effect [1].
Targets(IC ₅₀)	DNA/RNA Synthesis
In vitro	CHIKV-IN-3 (compound (E)-42; HeLa CCL2 cells; 0.1-100 μM; 24 hours) inhibits Chikungunya virus (CHIKV) replication with an EC ₅₀ of 1.55 μM and shows low cytotoxicity (CC ₅₀ = 129.6 μM) [1]. It demonstrates the highest inhibition (approx. 99.99% or 3.9-log reduction in viral titre) at 80 μM [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6045 mL	13.0225 mL	26.0451 mL
5 mM	0.5209 mL	2.6045 mL	5.209 mL
10 mM	0.2605 mL	1.3023 mL	2.6045 mL
50 mM	0.0521 mL	0.2605 mL	0.5209 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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