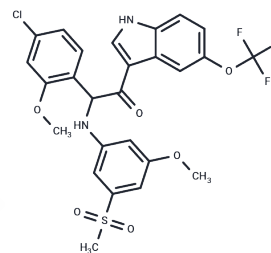


Mosnodenvir

Chemical Properties

CAS No. :	2043343-94-6
Formula:	C ₂₆ H ₂₂ ClF ₃ N ₂ O ₆ S
Molecular Weight:	582.98
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	Mosnodenvir (JNJ-1802) is a pan-DENV inhibitor effective against all four serotypes of dengue viruses, with the advantage of being highly potent and orally bioavailable, and blocks viral replication by inhibiting the formation of the complex between NS3 and NS4B.
Targets(IC50)	Antiviral,Virus Protease
In vitro	Mosnodenvir inhibited SARS-CoV-2 BA.5 and XBB in Vero E6 cells with EC ₅₀ values of 0.27μM and 0.43μM, respectively, and showed broad-spectrum antiviral activity in other cell lines[1].
In vivo	In hACE2 transgenic mice, Mosnodenvir (200mg/kg, i.p., daily × 5days) reduced lung viral titers by >99% and alleviated lung damage, with good oral bioavailability (>80%) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7153 mL	8.5766 mL	17.1532 mL
5 mM	0.3431 mL	1.7153 mL	3.4306 mL
10 mM	0.1715 mL	0.8577 mL	1.7153 mL
50 mM	0.0343 mL	0.1715 mL	0.3431 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.

Reference

Bouzidi, H.S., Sen, S., Piorkowski, G. et al. Genomic surveillance reveals a dengue 2 virus epidemic lineage with a marked decrease in sensitivity to Mosnodenvir. Nat Commun 15, 8667 (2024).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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