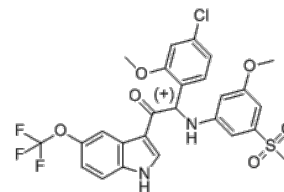


Product Name : JNJ-1802
Cat. No. : PC-20177
CAS No. : 2890688-86-3
Molecular Formula : C₂₆H₂₂ClF₃N₂O₆S
Molecular Weight : 582.98
Target : Filovirus
Solubility : 10 mM in DMSO



Biological Activity

JNJ-1802 (Mosnodenvir, JNJ-64281802) is a highly potent, pan-serotype **dengue virus (DENV)** inhibitor (EC₅₀=0.04 nM-1.8 nM), blocks the **NS3-NS4B** interaction within the viral replication complex (EC₅₀=1.4 nM, DENV-2).

JNJ-1802 is highly specific for DENV and is inactive against a panel of unrelated DNA and RNA viruses.

JNJ-1802 inhibits the replication of other flaviviruses West Nile Virus (WNV), Japanese encephalitis virus (JEV) and Zika virus (ZIKV), with mean EC₅₀ values ranging from 0.25 μM to 1.1 μM, which is > 4,000-fold higher than the EC₅₀ value of JNJ-1802 for DENV12/16681 (IC₅₀=0.059 nM).

JNJ-1802 shows antiviral activity and limited cellular toxicity in DENV-infected Vero, C6/36, Huh-7 and THP-1/DC-SIGN cells.

JNJ-1802 prevents de novo formation of NS3-NS4B complexes but does not disrupt established ones.

JNJ-1802 (0.2-6 mg per kg per day) exhibits a high barrier to resistance and potent in vivo efficacy in mice against infection with any of the four DENV serotypes.

JNJ-1802 is highly effective against viral infection with DENV-1 or DENV-2 in non-human primates.

References

Olivia Goethals, et al. **Nature**. 2023 Mar 15. doi: 10.1038/s41586-023-05790-6.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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