

Product Datasheet

NS2B/NS3-IN-3 hydrochloride

Catalog No. **BP-02432A** · CAS **2832876-91-0** · Form **salt** · **hydrochloride** · Physical state **solid** · Color **Orange to red** · Version **1.0** · Revision **2026-09-11**

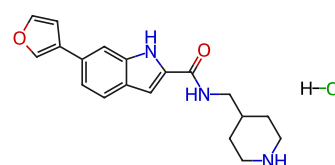
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Target Virus Protease; Flavivirus	Research area Infection
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Molecular formula **C₁₉H₂₂ClN₃O₂**

Molecular weight **359.8500**

STRUCTURE



DESCRIPTION

NS2B/NS3-IN-3 hydrochloride is an inhibitor of Flavivirus NS2B-NS3 protease, with an IC₅₀ of 0.32 μM against Zika virus NS2B-NS3 protease. NS2B/NS3-IN-3 hydrochloride also exhibits inhibitory effects on dengue virus type 2 NS2B-NS3 protease and West Nile virus NS2B-NS3 protease. NS2B/NS3-IN-3 hydrochloride inhibits the intracellular replication of Zika virus. NS2B/NS3-IN-3 hydrochloride can be used in studies related to flavivirus infections .

BIOLOGICAL ACTIVITY

In Vitro

NS2B/NS3-IN-3 (compound 66) hydrochloride potently inhibits recombinant Zika virus NS2B-NS3 protease with an IC₅₀ of 0.32 μM; it also inhibits recombinant dengue virus type 2 NS2B-NS3 protease with an IC₅₀ of approximately 1-2 μM, and exhibits a non-competitive inhibition mode.

NS2B/NS3-IN-3 (1-10 μM; 48 h) hydrochloride exhibits dose-dependent antiviral activity against Zika virus (strain FLR) in human U87 glioma cells, with an EC₆₈ of 1 μM, and shows no toxicity to U87 cells at a concentration of 10 μM.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1].Nie S, et al. Synthesis, structure-activity relationship and antiviral activity of indole-containing inhibitors of Flavivirus NS2B-NS3 protease. European journal of medicinal chemistry. 2021 Dec 05;225:113767.