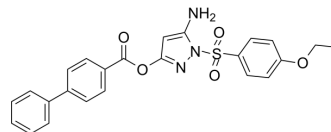


NS2B/NS3-IN-2

Cat. No.:	HY-144612
CAS No.:	3010940-08-3
Molecular Formula:	C ₂₄ H ₂₁ N ₃ O ₅ S
Molecular Weight:	463.51
Target:	Virus Protease; Flavivirus; Dengue virus
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NS2B/NS3-IN-2 is a potent dengue virus (DENV) NS2B/NS3 covalent inhibitor with an IC ₅₀ of 6.0 nM and K _i of 0.66 μM. NS2B/NS3-IN-2 shows no cytotoxicity and markedly increases the cell survival rate ^[1] .									
IC₅₀ & Target	IC ₅₀ : 6.0 nM (NS2B/NS3) ^[1]									
In Vitro	<p>NS2B/NS3-IN-2 (compound 23) (150 nM) shows 100% inhibition rate against Dengue virus (DENV)^[1]. NS2B/NS3-IN-2 (5 μM) shows no cytotoxicity and markedly increases the cell survival rate^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Cytotoxicity Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Infected BHK-21 cells after DENV infection</td> </tr> <tr> <td>Concentration:</td> <td>5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>5 days</td> </tr> <tr> <td>Result:</td> <td>Showed no cytotoxicity and markedly increased the cell survival rate.</td> </tr> </table>		Cell Line:	Infected BHK-21 cells after DENV infection	Concentration:	5 μM	Incubation Time:	5 days	Result:	Showed no cytotoxicity and markedly increased the cell survival rate.
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Concentration:	5 μM									
Incubation Time:	5 days									
Result:	Showed no cytotoxicity and markedly increased the cell survival rate.									

REFERENCES

[1]. Lin X, et al. Identification and In Silico Binding Study of a Highly Potent DENV NS2B-NS3 Covalent Inhibitor. ACS Med Chem Lett. 2022; 13(4):599-607.

Caution: Product has not been fully validated for medical applications. For research use only.

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