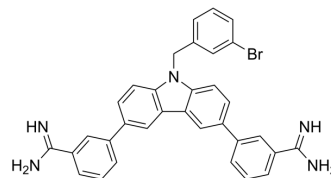


SP-471

Cat. No.:	HY-144646
CAS No.:	2768010-39-3
Molecular Formula:	C ₃₃ H ₂₆ BrN ₅
Molecular Weight:	572.5
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	SP-471 is a potent dengue virus (DENV) protease inhibitor with IC ₅₀ value of 18 μM. SP-471 inhibits both intermolecular and intramolecular protease processes of DENV ^[1] .								
IC₅₀ & Target	IC ₅₀ : 18 μM (DENV) ^[1]								
In Vitro	<p>SP-471 (10 μM; 48 hours) exhibits an EC₅₀ value of 48.13 μM and CC₅₀ over 100 μM for ADE infection in human PBMCs^{[1],[1]}. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Human peripheral blood mononuclear cells (infected with ADE)^[1]</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 hours</td> </tr> <tr> <td>Result:</td> <td>Resulted in an EC₅₀ value of 48.13 μM and CC₅₀ over 100 μM for ADE infection in human PBMCs.</td> </tr> </table>	Cell Line:	Human peripheral blood mononuclear cells (infected with ADE) ^[1]	Concentration:	10 μM	Incubation Time:	48 hours	Result:	Resulted in an EC ₅₀ value of 48.13 μM and CC ₅₀ over 100 μM for ADE infection in human PBMCs.
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REFERENCES

[1]. Swarbrick C, Zogali V, Chan KWK, et al. Amidoxime prodrugs convert to potent cell-active multimodal inhibitors of the dengue virus protease. *Eur J Med Chem.* 2021;224:113695.

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

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