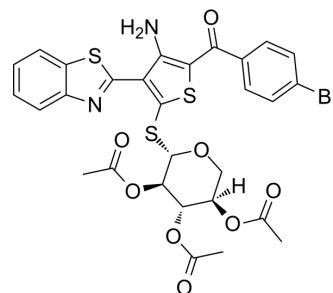


HCVcc-IN-1

Cat. No.:	HY-151581
CAS No.:	2977251-08-2
Molecular Formula:	C ₂₉ H ₂₅ BrN ₂ O ₈ S ₃
Molecular Weight:	705.62
Target:	Virus Protease
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	HCVcc-IN-1 is a benzothiazole-2-thiophene S-glycoside derivative with low toxic and antiviral activity ^[1] .								
In Vitro	<p>HCVcc-IN-1 (compound 8c) (0.1, 1, 10, and 100 µg/mL; 1 h) shows antiviral activities against a variety of viruses such as coxsackievirus B4 (CBV4), hepatitis A virus HM 175 (HAV), hepatitis C genotype 4 (HCVcc), adenovirus type 7 (HAdV7), and herpes simplex virus 1 (HSV-1) with viral reduction rates of 86.7%, 66.7%, 23.3%, 66.7%, and 36.7%, respectively^[1].</p> <p>HCVcc-IN-1 (0.57-2.0 µg/mL; 1 h) inhibits various virus with IC₅₀ of 0.57 µg/mL (herpes simplex virus), 0.71 µg/mL (HCVcc genotype virus), and 0.69 µg/mL (coxsackievirus B4), respectively; or with CC₅₀ of 2.0 µg/mL (herpes simplex virus), 1.7 µg/mL (HCVcc genotype virus), and 1.7 µg/mL (coxsackievirus B4), respectively^[1].</p> <p>HCVcc-IN-1 (5.16-7.23 µg/mL) inhibits hepatitis C virus NS3/4A and HSV-USP7 protease enzyme with IC₅₀s of 5.16 µg/mL and 7.23 µg/mL^[1].</p> <p>HCVcc-IN-1 (0.01 mM; 24 h) has low cytotoxicity against FRHK-4, Hep2, BGM, Vero, and Huh 7.5 cell lines^[1].</p> <p>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>FRHK-4, Hep2, BGM, Vero, and Huh 7.5 cell lines</td></tr> <tr> <td>Concentration:</td><td>100 µg/mL</td></tr> <tr> <td>Incubation Time:</td><td>24 hours</td></tr> <tr> <td>Result:</td><td>Showed nontoxic under the doses of 100 µg/mL against FRHK-4, Hep2, BGM, Vero, and Huh 7.5 cells, respectively.</td></tr> </table>	Cell Line:	FRHK-4, Hep2, BGM, Vero, and Huh 7.5 cell lines	Concentration:	100 µg/mL	Incubation Time:	24 hours	Result:	Showed nontoxic under the doses of 100 µg/mL against FRHK-4, Hep2, BGM, Vero, and Huh 7.5 cells, respectively.
Cell Line:	FRHK-4, Hep2, BGM, Vero, and Huh 7.5 cell lines								
Concentration:	100 µg/mL								
Incubation Time:	24 hours								
Result:	Showed nontoxic under the doses of 100 µg/mL against FRHK-4, Hep2, BGM, Vero, and Huh 7.5 cells, respectively.								

REFERENCES

[1]. Azzam et al. Novel Thiophene Thioglycosides Substituted with the Benzothiazole Moiety: Synthesis, Characterization, Antiviral and Anticancer Evaluations, and NS3/4A and USP7 Enzyme Inhibitions. ACS Omega. 2022 Sep 29;7(40):35656-35667.

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

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