

Product Data Sheet

HCVcc-IN-2

Cat. No.: HY-151589

Molecular Weight: 777.68

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-2 is a benzothiazole-2-thiophene S-glycoside derivative with antitumor and antiviral activity. HCVcc-IN-2 has high inhibition against the three cell line from CNS cancer (SF-539 and SNB-75), colon cancer (HCT-116), and renal cancer (A498) [1]

In Vitro

HCVcc-IN-2 (compound 6c) (0.1, 1, 10, and 100 μ g/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 83.3%, 63.3%, 40%, 63.3%, and 30%, respectively^[1].

HCVcc-IN-2 (0.55-1.9 μg/mL; 1 h) inhibits various virus with IC₅₀ of 0.55 μg/mL (herpes simplex virus), 0.76 μg/mL (HCVcc genotype virus), and 0.76 μg/mL (coxsackievirus B4), respectively; or with CC₅₀ of 1.8 μg/mL (herpes simplex virus), 1.9 μg/mL (HCVcc genotype virus), and 1.9 μg/mL (coxsackievirus B4), respectively^[1].

HCVcc-IN-2 (7.68-16.01 μ g/mL;) inhibits hepatitis C virus NS3/4A and HSV- USP7 protease enzyme with IC₅₀s of 16.01 μ g/mL and 7.68 μ g/mL^[1].

HCVcc-IN-2 (0.01 mM; 24 h) has low cytotoxicity, shows high inhibition against two cell lines, SK-MEL-5, OVCAR-4^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay^[1]

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 $\mu g/mL$ against FRHK-4, Hep2, BGM, Vero, and Huh 7.5 cells, respectively.
Cell Viability Assay ^[1]	
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Cell Line: SF-539, SNB-75, HCT-116, and A498 Concentration: 0.01 mM Incubation Time: 24 hours Result: Inhibited SF-539, SNB-75, HCT-116, and A498 cell viability by 15.70%, 16.66%, 75.89%, and 58.5%, respectively.

ene Thioglycosides Substituted v ACS Omega. 2022 Sep 29;7(40):3		ynthesis, Characterization, Antiviral ar	nd Anticancer Evaluations, and NS3/4A
Caution: Product has not	been fully validated for med	cal applications. For research use	only.
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REFERENCES

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