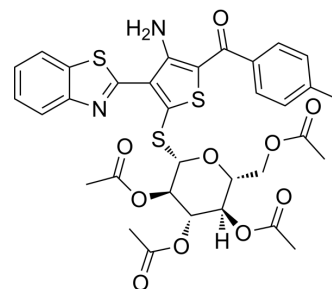


Anticancer agent 91

Cat. No.:	HY-151592
Molecular Formula:	C ₃₃ H ₃₂ N ₂ O ₁₀ S ₃
Molecular Weight:	712.81
Target:	Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anticancer agent 91 is a benzothiazole-2-thiophene S-glycoside derivative with antitumor and antiviral activity. Anticancer agent 91 has high inhibition against the two cell line from CNS cancer (SF-539 and SNB-75) ^[1] .																
In Vitro	<p>Anticancer agent 91 (compound 6a) (0.01 mM; 24 h) has low cytotoxicity, shows high inhibition against SF-539, SNB-75 and HCT-116^[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>0-200 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 90 µg/mL against FRHK-4, Hep2, BGM, Vero, and Huh 7.5 cells, respectively.</td> </tr> </table> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>SF-539, SNB-75</td> </tr> <tr> <td>Concentration:</td> <td>0.01 mM</td> </tr> <tr> <td>Incubation Time:</td> <td>24 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited SF-539, SNB-75 and HCT-116 cell viability by 28.19%, 25.40%, respectively.</td> </tr> </table>	Cell Line:	FRHK-4, Hep2, BGM, Vero, and Huh 7.5 cell lines	Concentration:	0-200 µg/mL	Incubation Time:	24 hours	Result:	Showed nontoxic under the doses of 90 µg/mL against FRHK-4, Hep2, BGM, Vero, and Huh 7.5 cells, respectively.	Cell Line:	SF-539, SNB-75	Concentration:	0.01 mM	Incubation Time:	24 hours	Result:	Inhibited SF-539, SNB-75 and HCT-116 cell viability by 28.19%, 25.40%, respectively.
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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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