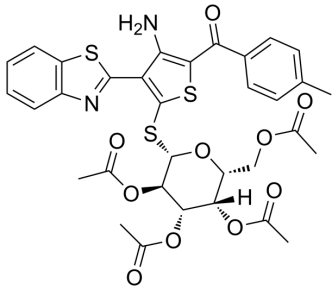
Anticancer agent 90

Cat. No.:	HY-151588
Molecular Formula:	$C_{33}H_{32}N_2O_{10}S_3$
Molecular Weight:	712.81
Target:	Virus Protease
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Anticancer agent 90 is a benzothiazole-2-thiophene S-glycoside derivative with antitumor activity. Anticancer agent 90 has high inhibition against the two cell line from ovarian cancer (OVCAR-4), renal cancer (A498)[1].

In Vitro

Anticancer agent 90 (compound 6d) (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:	0-200 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 Viability Assay[1]

Cell Line:	SK-MEL-5, OVCAR-4, and A498
Concentration:	0.01 mM
Incubation Time:	24 hours
Result:	Inhibited SK-MEL-5 and OVCAR-4 cell viability by 30.64% and 30.71%, 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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