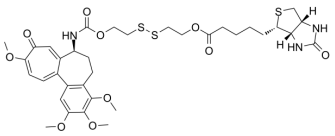
Deac-SS-Biotin

Cat. No.:	HY-144793
Molecular Formula:	$C_{35}H_{45}N_3O_{10}S_3$
Molecular Weight:	763.94
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Deac-SS-Biotin is a potent antitumor agent. Deac-SS-Biotin uptakes into the cells through biotin-mediated internalization. Deac-SS-Biotin combined with DTT (Glutathione mimetic) can effectively inhibit microtubule assembly and displays greater antitumor activity[1].

In Vitro

Deac-SS-Biotin (compound 9) (5 μM; 24 h) has a remarkable reduction-responsive drug release[1].
Biotin effectively preventes Deac-SS-Biotin from binding to biotin receptor, thereby blocking the cellular uptake of Deac-SS-Biotin[1].
Deac-SS-Biotin (5 μM, 5 μM and 10 μM DTT; 0-80 min) effectively inhibits microtubule assembly and displays greater antitumor activity[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay[1]

Cell Line:	SGC-7901, A549, Hela, L929 cells
Concentration:	0-20 μM
Incubation Time:	72 h
Result:	Showed potent antiproliferative activity with IC_{50}s of 0.124, 0.085, 0.108, 4.22 μM for SGC-7901, A549, Hela, L929 cells.

Cell Viability Assay[1]

Cell Line:	A549 cells
Concentration:	0.17 μM
Incubation Time:	
Result:	Increased the cell viability from 23.6% to 68.9% with the increase of biotin concentration from 0.075 to 0.60 μM.

REFERENCES

[1]. Wang C,et al. Design, synthesis, and biological evaluation of biotinylated colchicine derivatives as potential antitumor agents. J Enzyme Inhib Med Chem. 2022 Dec;37(1):411-420.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA