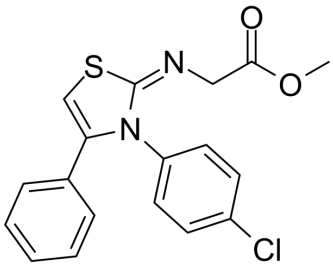
Anticancer agent 122

Cat. No.:	HY-154866
CAS No.:	2924532-50-1
Molecular Formula:	$C_{18}H_{15}ClN_2O_2S$
Molecular Weight:	358.84
Target:	Lactate Dehydrogenase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Anticancer agent 122, an inhibitor of human lactate dehydrogenase A enzyme (***h***LDHA), has good anticancer activities and can be used for anticancer research[1].
In Vitro	Anticancer agent 122 (Compound 8m) (0-100 μM; 72 hours) inhibits liver cancer cell line HepG2 cells and cervical cancer cell line SiHa cells with IC_{50}s of 5.15 μM and 1.65 μM respectively and has not noticeable toxicity in human embryonic kidney cell line HEK293 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

Cell Line:	HEK293, HepG2 and SiHa
Concentration:	0-100 μM
Incubation Time:	72 hours
Result:	Inhibited liver cancer cell line HepG2 cells and cervical cancer cell line SiHa cells with IC_{50}s of 5.15 μM and 1.65 μM respectively. Had not noticeable toxicity in HEK293.

REFERENCES

[1]. Sharma D, et.al.Design and Synthesis of Thiazole Scaffold-Based Small Molecules as Anticancer Agents Targeting the Human Lactate Dehydrogenase A Enzyme. ACS Omega. 2023 May 10;8(20):17552-17562.

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