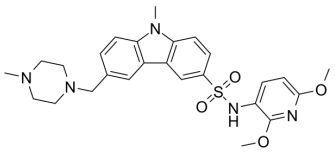
Antitumor agent-71

Cat. No.:	HY-146250
CAS No.:	2011756-99-1
Molecular Formula:	$C_{26}H_{31}N_5O_4S$
Molecular Weight:	509.62
Target:	Microtubule/Tubulin
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antitumor Agent-71 is an antiproliferative activity antitumor agent and against tumor cell lines with IC_{50} values ranging from 3.98-15.70 μM. Antitumor Agent-71 is an antitumor agent that can inhibit tubulin polymerization.
IC_{50} & Target	3.98/15.70/10.48/5.38 μM
In Vitro	Antitumor agent-71 (0.002-20 μM; 48 hours) inhibits the cell line HepG2, MCF-7, MIA PaCa-2, and Bel-7402 growth in a dose-dependent manner[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay

Cell Line:	HepG2, MCF-7, MIA PaCa-2, and Bel-7402[1].
Concentration:	0.002-20 μM
Incubation Time:	48h
Result:	Showed antitumor activity against HepG2, MIA PaCa-2, MCF-7, and Bel-7402 cell lines with the IC_{50} values of 3.98/15.70/10.48/5.38 μM.

In Vivo

Antitumor agent-71 (10-20 mg/kg; intravenous injection; twice a day; 20 days) shows inhibitory effects and inhibits HepG2 cell line in nude mice[1].

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Animal Model:	HepG2 model BALB/c nude mice[1]
Dosage:	10mg/kg, 20mg/kg
Administration:	Intravenous injection; twice a day; 20 days
Result:	Inhibited tumor growth in a dose-dependent manner.

REFERENCES

[1]. Lianqi Sun, et al. Design, synthesis, and evaluations of the antiproliferative activity and aqueous solubility of novel carbazole sulfonamide derivatives as antitumor agents. Bioorg Chem. 2020 Jun;99:103766.

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