FF-10502

MedChemExpress

BIOLOGICAL ACTIVITY		
Description	FF-10502, a structural analog of Gemcitabine, is a pyrimidine nucleoside antimetabolite. FF-10502 inhibits DNA polymerase α and β . FF-10502 shows beneficial anticancer activity via a mechanism of action on dormant cells ^[1] .	
In Vitro	FF-10502 (0.1 nM-10 μM; 72 hours) shows the growth inhibition of pancreatic cancer cell lines, with IC ₅₀ s of 59.9 nM, 39.6 nM, 68.2 nM, and 331.4 nM for BxPC-3, SUIT-2, Capan-1, and MIA PaCa-2 cells, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]	
	Cell Line:	Human pancreatic cancer cell lines (BxPC-3, SUIT-2, Capan-1, and MIA PaCa-2)
	Concentration:	0.1 nM to 10 μM
	Incubation Time:	72 hours
	Result:	Inhibited the growth of pancreatic cancer cell lines.
In Vivo	FF-10502 (120-480 mg/kg; i.v; once weekly; for 4 weeks) shows an antitumor effect in a mouse xenograft model with the subcutaneously implanted human pancreatic cancer cell line Capan-1 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Five-week-old female nude mice (BALB/c-nu/nu) injected with Capan-1 cells ^[1] .
	Dosage:	120 mg/kg, 240 mg/kg, 360 mg/kg, and 480 mg/kg

REFERENCES

Administration:

Result:

[1]. Shinji Mima, et al. FF-10502, an Antimetabolite with Novel Activity on Dormant Cells, Is Superior to Gemcitabine for Targeting Pancreatic Cancer Cells. J Pharmacol Exp Ther. 2018 Jul;366(1):125-135.

Tail vein injection; once weekly; for 4 weeks

Suppressed tumor growth in a dose-dependent manner in mice.

Caution: Product has not been fully validated for medical applications. For research use only.

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