(-)-Hinesol

Product Data Sheet

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BIOLOGICAL ACTIV	ІТҮ	
Description	(-)-Hinesol (Hinesol) is a potent anticancer agent. (-)-Hinesol induces apoptosis and cell cycle arrest at G0/G1 phase. (-)- Hinesol downregulates MEK/ERK pathway and NF-κB pathway and mediates theexpression of cyclin D1, Bax and Bcl-2. (-)- Hinesol has the potential for the research of non–small cell lung cancer ^[1] .	
In Vitro	 (-)-Hinesol (0-25 μg/ml; 24, 48 h) shows antiproliferative activity of the A549 and NCI-H1299 cells in a dose- and time-dependent manner^[1]. (-)-Hinesol (0, 2, 8 μg/ml; 24 h) induces apoptosis and cell cycle arrest at G0/G1 phase with increases the expression of Bax and decreases the expression of Bcl-2 and cyclin D1^[1]. (-)-Hinesol (0, 2, 8 μg/ml; 24 h) decreases the expression of phosphor-ERK1/2, phosphor-MEK1/2, phosphor-IκBα and -p65 level, and shows no change for the total protein levels of IκBα and p65 in A549 cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay^[1] 	
	Cell Line:	A549, NCI-H1299 cells
	Concentration:	0-25 μg/ml
	Incubation Time:	24, 48 h
	Result:	Inhibited the proliferation of the A549 and NCI-H1299 cells in a dose- and time-dependent manner.
	Apoptosis Analysis ^[1]	
	Cell Line:	A549 cells
	Concentration:	0, 2, 8 μg/ml
	Incubation Time:	24 h
	Result:	Induced apoptosis with the apoptotic cells was increased to 21.2 \pm 0.96% and 36 \pm 1.04% after treatment with hinesol at 2 and 8 μ g/mL, respectively.
	Western Blot Analysis ^[1]	

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Cell Line:	A549 cells
Concentration:	0, 2, 8 μg/ml
Incubation Time:	24 h
Result:	Increased the protein expression of Bax and decreased the expression of Bcl-2.
Cell Cycle Analysis ^[1]	
Cell Line:	A549 cells
Concentration:	0, 2, 8 μg/ml
Incubation Time:	24 h
Result:	Showed concentration-dependent increase in the percentage of cell in the G0/G1 phas and a decrease of the percentage in G2/M phase.

REFERENCES

[1]. Guo W, et al. The antitumor effect of hinesol, extract from Atractylodes lancea (Thunb.) DC. by proliferation, inhibition, and apoptosis induction via MEK/ERK and NF- κ B pathway in non-small cell lung cancer cell lines A549 and NCI-H1299. J Cell Biochem. 2019 Nov;120(11):18600-18607.

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

 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