## (-)-Hinesol

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-N1930 23811-08-7 C <sub>15</sub> H <sub>26</sub> O 222.37 Apoptosis Apoptosis	, the second
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Product Data Sheet

BIOLOGICAL ACTIV				
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 <sup>[1]</sup> .			
In Vitro	<ul> <li>(-)-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<sup>[1]</sup>.</li> <li>(-)-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<sup>[1]</sup>.</li> <li>(-)-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<sup>[1]</sup>.</li> <li>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</li> <li>Cell Proliferation Assay<sup>[1]</sup></li> </ul>			
	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 <sup>[1]</sup>			
	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 $\mu$ g/mL, respectively.		
	Western Blot Analysis <sup>[1]</sup>			

Western Blot Analysis

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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 <sup>[1]</sup>	
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- $\kappa$ 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