## Bursehernin

®

MedChemExpress

Cat. No.:	HY-N10670	$\sim$ 0
CAS No.:	40456-51-7	
Molecular Formula:	C <sub>21</sub> H <sub>22</sub> O <sub>6</sub>	0
Molecular Weight:	370.4	
Target:	Apoptosis	O, )
Pathway:	Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	0

BIOLOGICAL ACTIVI	тү			
Description	Bursehernin (Methylpluviato Bursehernin shows anti-prol	lide) is an antitumor agent. Bursehernin induces Apoptosis and cell cycle arrest at G2/M phase. iferative activity <sup>[1][2]</sup> .		
In Vitro	Bursehernin (4.3 μM for MCF-7 cells, 3.7 μM for KKU-M213 cells; 4, 48, 72 h) induces apoptosis and cell cycle arrest at G2/M phase in a time-dependent manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay <sup>[1]</sup>			
	Cell Line:	MCF-7, MDA-MB-468, MDA-MB-231, HT-29, KKU-M213, KKU-K100, KKU-M055, L-929, MMNK- 1 cells		
	Concentration:	0-100 μΜ		
	Incubation Time:	72 h		
	Result:	Showed anti-proliferative activity with IC <sub>50</sub> s of 11.96, 8.24, 14.26, 47.53, 3.70, 12.38, 17.38, 26.36, 7.45 μM for MCF-7, MDA-MB-468, MDA-MB-231, HT-29, KKU-M213, KKU-K100, KKU-M055, L-929, MMNK-1 cells, respectively.		
	Cell Cycle Analysis <sup>[1]</sup>			
	Cell Line:	MCF-7, KKU-M213 cells		
	Concentration:	4.3 μM for MCF-7 cells, 3.7 μM for KKU-M213 cells		
	Incubation Time:	24, 48, 72 h		
	Result:	Induced cell cycle arrest at G2/M phase.		
	Western Blot Analysis <sup>[1]</sup>			
	Cell Line:	MCF-7, KKU-M213 cells		
	Concentration:	4.3 $\mu M$ for MCF-7 cells, 3.7 $\mu M$ for KKU-M213 cells		
	Incubation Time:	24, 48, 72 h		
	Cell Line: Concentration:	4.3 $\mu M$ for MCF-7 cells, 3.7 $\mu M$ for KKU-M213 cells		

## Product Data Sheet

Result:	Decreased the expression of topoisomerase II, STAT 3, cyclin D1, and p21.
Apoptosis Analysis <sup>[1]</sup>	
Cell Line:	MCF-7 cells
Concentration:	0, 2.15, 4.30, 8.60 μΜ
Incubation Time:	24, 48, 72, 96 h
Result:	Induced apoptosis in a time- and dose-dependent manner.

## REFERENCES

[1]. Rattanaburee T, et al. Anticancer activity of synthetic (±)-kusunokinin and its derivative (±)-bursehernin on human cancer cell lines. Biomed Pharmacother. 2019 Sep;117:109115.

[2]. McDoniel PB, et al. Antitumor activity of Bursera schlechtendalii (burseraceae): isolation and structure determination of two new lignans. J Pharm Sci. 1972 Dec;61(12):1992-4.

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

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