erythro-Austrobailignan-6

Cat. No.:	HY-N11536	
CAS No.:	114127-24-1	
Molecular Formula:	$C_{20}H_{24}O_4$	0
Molecular Weight:	328.4	
Target:	Topoisomerase; Apoptosis	
Pathway:	Cell Cycle/DNA Damage; Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

	ITV		
DIOLOGICAL ACTIV			
Description	erythro-Austrobailignan-6 is an orally active anti-cancer agent. erythro-Austrobailignan-6 inhibits DNA topoisomerase I and II activity. erythro-Austrobailignan-6 induces cell apoptosis and increases phosphorylation of p38 and JNK ^{[1][2]} .		
In Vitro	erythro-Austrobailignan-6 erythro-Austrobailignan-6 erythro-Austrobailignan-6 erythro-Austrobailignan-6 erythro-Austrobailignan-6 MCE has not independent Cell Viability Assay ^[1]	nro-Austrobailignan-6 (100 μM) inhibits DNA topoisomerase I more than 50% ^[1] . hro-Austrobailignan-6 (0-30 μM, 24 or 48 h) inhibits the proliferation of 4T-1 cells and MCF-7 cells ^[1] . hro-Austrobailignan-6 (2-30 μM, 24 or 48 h) induces apoptosis in 4T-1 and MCF-7 cells ^[1] . hro-Austrobailignan-6 (10 μM, 30-120 min) increases phosphorylation of p38 and JNK in 4T-1 and MCF-7 cells ^[1] . hro-Austrobailignan-6 (5 and 10 μM, 24 h) decreases EGFR/HER2 and topoisomerase in 4T-1 and MCF-7 cells ^[1] . has not independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	4T-1 and MCF-7 cells	
	Concentration:	0-30 μΜ	
	Incubation Time:	24 or 48 h	
	Result:	Dose dependently inhibited cell proliferation.	
	Western Blot Analysis ^[1]		
	Cell Line:	4T-1 and MCF-7 cells	
	Concentration:	100 μΜ	
	Incubation Time:	30, 60 or 120 min	
	Result:	Increased phosphorylation of p38 and JNK. Activated caspase-3 and inhibited CDK-4 and cyclin D1.	
In Vivo	erythro-Austrobailignan-6 (food intake, for 20 days) inhibits tumor growth in 4T-1 tumor bearing mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	4T-1 tumor bearing mice ^[1]	

Product Data Sheet



Dosage:	20 mg/kg/day
Administration:	Food intake
Result:	Inhibited tumor growth by 40.8%;
	Down-regulated CDK-4, cyclin D1, HER2 and integrin β 3;
	Up-regulated cleaved caspase-3 in tumor.

REFERENCES

[1]. Han JH, et al. Erythro-austrobailignan-6 down-regulates HER2/EGFR/integrinß3 expression via p38 activation in breast cancer. Phytomedicine. 2017 Jan 15;24:24-30.

[2]. Lee YK, et al. Inhibition of DNA topoisomerases I and II and cytotoxicity by lignans from Saururus chinensis. Arch Pharm Res. 2009 Oct;32(10):1409-15.

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

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