Chlorfortunone A

Cat. No.:	HY-N10577	
Molecular Formula:	C ₃₁ H ₃₈ O ₅	
Molecular Weight:	490.63	V
Target:	TGF-beta/Smad	Ì
Pathway:	Stem Cell/Wnt; TGF-beta/Smad	l
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	



Product Data Sheet

Description	Chlorfortunone A is a novel sesquiterpenoid dimers, can be isolated from the roots of Chloranthus fortunei. Chlorfortunone A inhibits transforming growth factor (TGF)-β activity ^[1] .			
In Vitro	Chlorfortunone A (compound 1) (10-40 μM; 4 h) downregulates TGF-β-induced Smad2 phosphorylation (A) and the expression of vimentin (B) in MDA-MB-231 cells ^[1] . Chlorfortunone A (25 μM; 48 h) significantly downregulated the expression of vimentin, a Smad-regulated EMT-marker ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]			
	Cell Line:	MDA-MB-231 cells		
	Concentration:	10, 20, 40 μM		
	Incubation Time:	4 hours; accompanied with 10 ng/mL TGF- β 1 for 30 min		
	Result:	Significantly downregulated the TGF-β-induced p-Smad2 expression in a concentration- dependent manner without any impact on the expression of Smad2/3 protein.		
	Immunofluorescence ^[1]			
	Cell Line:	MDA-MB-231 cells		
	Concentration:	25 μΜ		
	Incubation Time:	48 hours		
	Result:	Significantly downregulated the expression of vimentin.		

REFERENCES

[1]. Wu xujia, et al. Chlorfortunones A and B, Two Sesquiterpenoid Dimers, Possessing Dispiro[4,2,5,2]pentadecane-6,10,14-tren Moiety from Chloranthus fortunei. ACS Omega 2022.

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

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