Paeonoside

MedChemExpress

Cat. No.:	HY-N2351	
CAS No.:	20309-70-0	OH O
Molecular Formula:	$C_{15}H_{20}O_{8}$	HO
Molecular Weight:	328.31	
Target:	Others	HO
Pathway:	Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	0, <

Description	Paeonoside is a bioactive compound identified in P. suffruticosa that promotes wound healing and migration in osteoblast differentiation. Paeonoside has also been reported to have some antidiabetic activity and may prevent sepsis-induced lethality ^[1] .		
In Vitro	Paeonoside (PASI) (0.1-100 μM, 24 h) has no cytotoxic effect on pro-osteoblasts of MC3T3-E1 cells ^[1] . Paeonoside (PASI) (1-30 μM, 24 h) can significantly restore wound areas and promote cell migration in a dose-dependent manner during the induction of preosteoblast of MC3T3-E1 cells differentiation using osteogenic supplement (OS) medium. In parallel, PASI promotes alkaline phosphatase (ALP) staining and its activity in a dose-dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]		
	Cell Line:	Pro-osteoblasts of MC3T3-E1 cells	
	Concentration:	1-10 μΜ	
	Incubation Time:	24 h	
	Result:	Increased the expression of BMP2 and Wnt3a, stimulated Smad1/5/8 phosphorylation, GSK3 β phosphorylation and β -linked protein expression as well as upregulated RUNX2 expression.	

REFERENCES

[1]. Kyung-Ran Park, et al. Biological Mechanisms of Paeonoside in the Differentiation of Pre-Osteoblasts and the Formation of Mineralized Nodules. Int J Mol Sci. 2021 Jun 27;22(13):6899.

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

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