Sugiol

R

MedChemExpress

Cat. No.: CAS No.:	HY-N1195 511-05-7
Molecular Formula:	$C_{20}H_{28}O_{2}$
Molecular Weight:	300.44
Target:	p38 MAPK; ERK; JNK; Interleukin Related; TNF Receptor
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt; Immunology/Inflammation; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

Description	Sugiol is an abietane diterpenoid, can be isolated from Calocedrus formosana bark. Sugiol has anti-inflammatory activity, could effectively reduce intracellular reactive oxygen species (ROS) production in lipopolysaccharide (LPS)-stimulated macrophages ^[1] .					
IC ₅₀ & Target	ERK1	ERK2	р38 МАРК	JNK1		
	JNK2	IL-1β				
In Vitro	Sugiol (5-30 μM; 30 min) inhibits TNF-α and proIL-1β/IL-1β protein production in J774A.1 cells ^[1] . Sugiol (5-30 μM; 30 min) inhibits MAPK activation, suppresses ERK1/2, JUNK1/2, and p38 phosphorylation in LPS-induced J774A.1 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]					
	Cell Line:	J774A.1 macrophages cells stimulated with LPS				
	Concentration:	5 μM, 10 μM, 20 μM, and 30 μM				
	Incubation Time:	30 min				
	Result:	Completely inhibited ERK1/2 phosphorylation at 30 μM , and effectively inhibited JNK1/2 and p38 phosphorylation.				

REFERENCES

[1]. Chao KP, et al. Anti-inflammatory activity of sugiol, a diterpene isolated from Calocedrus formosana bark. Planta Med. 2005 Apr;71(4):300-5.

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