

Produktinformation



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Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
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4'-Hydroxywogonin

MedChemExpress

®

Cat. No.:	HY-N1904	
CAS No.:	57096-02-3	
Molecular Formula:	C ₁₆ H ₁₂ O ₆	O OH
Molecular Weight:	300.26	
Target:	IKK; NF-кВ; p38 MAPK; PI3K; Akt; Reactive Oxygen Species; Interleukin Related; TNF Receptor; Apoptosis; Caspase; Bcl-2 Family	OH O
Pathway:	NF-кВ; MAPK/ERK Pathway; PI3K/Akt/mTOR; Immunology/Inflammation; Metabolic Enzyme/Protease; Apoptosis	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIV	итү — — — — — — — — — — — — — — — — — — —		
Description	4'-Hydroxywogonin (8-Methoxyapigenin), a flavonoid, could be isolated from a variety of plants including Scutellaria barbata and Verbena littoralis. 4'-Hydroxywogonin has anti-inflammatory activity via TAK1/IKK/NF-κB, MAPKs and PI3/AKT signaling pathways. 4'-Hydroxywogonin inhibits angiogenesis by disrupting PI3K/AKT signaling. 4'-Hydroxywogonin inhibits cell proliferation and induces apoptosis ^{[1][2][3]} .		
In Vitro	 4'-Hydroxywogonin (8-Methoxyapigenin; 0.5-15 μM; 0-24 h) has low cytotoxicity and inhibits NO and PGE₂ production in LPS-stimulated RAW 264.7 macrophages by suppression of iNOS and COX-2 expression^[1]. 4'-Hydroxywogonin (0.5-15 μM; 1 and 12 h) suppresses LPS-induced expression of pro-inflammatory cytokines in RAW 264.7 macrophages and suppresses LPS-induced activation of NF-κB^[1]. 4'-Hydroxywogonin (0.5-15 μM; 1 h) suppresses LPS-induced degradation of IκB-α and activation of IKK and TAK and suppresses the phosphorylation of MAPK and AKTin in RAW 264.7 macrophages^[1]. 4'-Hydroxywogonin (0.5-15 μM; 24 h) inhibits ROS production in LPS-stimulated RAW 264.7 macrophages^[1]. 4'-Hydroxywogonin (0.5-15 μM; 24 h) reduces the viability of SW620 cells in a concentration- and time-dependent manner and decreases the mRNA and protein expression of vascular endothelial growth factor-A (VEGF-A), the predominant proangiogenic cytokine in tumor angiogenesis^[2]. 4'-Hydroxywogonin (24 h; SUP-B15 and Jurkat cells) induces apoptosis and decreases the expression of C-MYC, BCL-2 and cleaved caspase 3^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay^[1] 		
	Cell Line:	RAW 264.7 macrophages	
	Concentration:	0.5, 5 and 15 μM	
	Incubation Time:	24 hours	
	Result:	Had low cytotoxicity in RAW 264.7 macrophages.	
	Western Blot Analysis ^[1]		
	Cell Line:	RAW 264.7 macrophages	

Product Data Sheet

Concentration:	0.5, 5 and 15 μM		
Incubation Time:	1 hours		
Result:	Attenuated the increase of iNOS and COX-2 mRNA expression induced by LPS in RAW 264.7 cells.		
Western Blot Analysis ^[1]			
Cell Line:	RAW 264.7 macrophages		
Concentration:	0.5, 5 and 15 μM		
Incubation Time:	1 and 12 hours		
Result:	Reduced TNF- α , IL-6 and IL-1 β mRNA expression in a dose-dependent manner. Inhibited LPS-induced p65 phosphorylation and nuclear translocation.		
Western Blot Analysis ^[1]			
Cell Line:	RAW 264.7 macrophages		
Concentration:	0.5, 5 and 15 μM		
Incubation Time:	1 hours		
Result:	Attenuated LPS induced ΙκΒ-α degradation. Attenuated the phosphorylation of ERK1/2 and p38 in a dose-dependent manner. Reduced the intensity of the TAK1/TAB1 band.		
Western Blot Analysis ^[2]			
Cell Line:	SW620 cells		
Concentration:	0.1, 1, and 10 μg/mL		
Incubation Time:	24 hours		
Result:	Downregulated VEGF-Aexpression in colorectal cancer cells and suppressed angiogenesi		
model ^[1] .	and 20 mg/kg; i.p.; male C57BL/6 mice) alleviates LPS-induced acute lung injury (ALI) in a mouse ntly confirmed the accuracy of these methods. They are for reference only.		
Animal Model:	Male C57BL/6 mice (6-8 weeks old; 20 g) with acute lung injury model $^{[1]}$		
Dosage:	10 and 20 mg/kg		
Administration:	Intraperitoneal injection, 12 and 1 h before LPS treatment		
Result:	Had potential protective effects against inflammation in LPS induced ALI mice. Attenuated the degree of leukocyte infiltration.		

REFERENCES

In Vivo

[1]. Fan C, et, al. 4'-Hydroxywogonin suppresses lipopolysaccharide-induced inflammatory responses in RAW 264.7 macrophages and acute lung injury mice. PLoS One. 2017 Aug 8;12(8):e0181191.

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

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