Product Data Sheet

Inhibitors • Screening Libraries • Proteins

2,3,4,6,8-Pentahydroxy-1-methylxanthone

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-N12166 548740-87-0 C ₁₄ H ₁₀ O ₇ 290.23 Others Others Please store the product under the recommended conditions in the Certificate of Analysis.	ОН О НО ОН ОН НО ОН ОН
	Analysis.	

BIOLOGICAL ACTIV			
Description	2,3,4,6,8-Pentahydroxy-1-n methylxanthone shows sig	nethylxanthone is a xanthone derivative of Wardomyces anomalus. 2,3,4,6,8-Pentahydroxy-1- nificant antioxidant activities. 2,3,4,6,8-Pentahydroxy-1-methylxanthone is inhibitors of p56 ^{lck} entahydroxy-1-methylxanthone can be used to treat cardiovascular disease ^[1] .	
IC ₅₀ & Target	p56 lck[1]		
In Vitro	apoptosis in human umbili 2,3,4,6,8-Pentahydroxy-1-n expression in human umbil 2,3,4,6,8-Pentahydroxy-1-n oxidative damage in huma	3,4,6,8-Pentahydroxy-1-methylxanthone (1~50μM with 50 μg/mL ox-LDL, 6h) has protective effect on ox-LDL induced ooptosis in human umbilical vein endothelial cells ^[2] . 3,4,6,8-Pentahydroxy-1-methylxanthone (1~50μM with 50 μg/mL ox-LDL, 6h) inhibits ox-LDL-induced adhesion molecules opression in human umbilical vein endothelial cells ^[2] . 3,4,6,8-Pentahydroxy-1-methylxanthone (1~50μM with 50 μg/mL ox-LDL, 6h) has protective effect on ox-LDL-induced kidative damage in human umbilical vein endothelial cells ^[2] . CE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	Human umbilical vein endothelial cells	
	Concentration:	1µМ, 5µМ, 50µМ (with 50 µg/mL ox-LDL)	
	Incubation Time:	6h	
	Result:	The percentage of apoptosis cells significantly decreased to around 20 ~ 40%.	
	Western Blot Analysis ^[2]		
	Cell Line:	Human umbilical vein endothelial cells	
	Concentration:	1μM, 5μM, 50μM (with 50 μg/mL ox-LDL)	
	Incubation Time:	6h	
	Result:	The level of pro-apoptotic protein Bax decreased significantly, while that of anti-apoptotic protein Bcl-2 increased significantly.	
	Apoptocic Apolycic ^[2]		

Apoptosis Analysis^[2]

Cell Line:	Human umbilical vein endothelial cells
Concentration:	1μΜ, 5μΜ, 50μΜ (with 50 μg/mL ox-LDL)
Incubation Time:	6h
Result:	The protein level of VCAM-1 and ICAM-1 decreased.
Immunofluorescence ^[2]	
Cell Line:	Human umbilical vein endothelial cells
Concentration:	1µМ, 5µМ, 50µМ (with 50 µg/mL ox-LDL)
Incubation Time:	6h
Result:	Activated Nrf2 nuclear translocations and the expression of HO-1 was significantl increased.

REFERENCES

[1]. Abdel-Lateff A, et al. Two new xanthone derivatives from the algicolous marine fungus Wardomyces anomalus. J Nat Prod. 2003 May;66(5):706-8.

[2]. Hou JR, et al. Protective Effect of Flavonoids from a Deep-Sea-Derived Arthrinium sp. against ox-LDL-Induced Oxidative Injury through Activating the AKT/Nrf2/HO-1 Pathway in Vascular Endothelial Cells. Mar Drugs. 2021 Dec 18;19(12):712.

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