

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

Data Sheet (Cat.No.T1516)

TargetM**Ò**I

Curcumin

Chemical Propert	ies	
CAS No. :	458-37-7	н _с ,
Formula:	C21H20O6	
Molecular Weight:	368.3799	₹° ₽°
Appearance:	no data available	
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year	OH OF CH3

Biological Description

Description	umin (Natural Yellow 3) is a phenolic natural product, an inhibitor of histone yltransferase p300/CREB (IC50=25 µM) with specificity. Curcumin has a wide range narmacological activities such as antitumor, anti-inflammatory and antioxidant.	
Targets(IC50)	Mitophagy,Epigenetic Reader Domain,Ferroptosis,Influenza Virus,Nrf2,Histone Acetyltransferase,HDAC,Autophagy	
In vitro	 METHODS: Retinoblastoma cells SO-Rb50 and Y79 were treated with Curcumin (10-50 μM) for 24 h. Cell viability was measured by CCK-8. RESULTS: Curcumin dose-dependently and significantly decreased the cell viability of SO-Rb50 and Y79 cells, with IC50s of 38.4 μM and 34.8 μM, respectively.[1] METHODS: Mouse colon cancer cells MC38 were treated with Curcumin (5-50 μM) for 48 h. Apoptosis was detected by Flow Cytometry. RESULTS: Curcumin dose-dependently induced apoptosis in MC38 cells. [2] METHODS: Human pancreatic cancer cells PANC1 were treated with Curcumin (10-80 μg/mL) for 24 h. The autophagy marker LC3 was detected by Immunofluorescence. RESULTS: The highest expression level of punctate autophagosomes was found in 40 μg/mL Curcumin-treated cells. [3] 	
In vivo	 METHODS: To detect the anti-tumor activity in vivo, Curcumin (100-200 mg/kg) was administered by gavage every three days for three weeks to C57BL/6J mice bearing mouse colon cancer tumor MC38. RESULTS: The average tumor volume and tumor weight of mice in the Curcumin treatment group were significantly reduced, and the tumor volume and tumor weight of the 200 mg/kg treatment group were also significantly lower than those of the 100 mg/kg treatment group. [2] METHODS: To detect anti-tumor activity in vivo, Curcumin (25-50 mg/kg) was injected intraperitoneally into BALB/c mice bearing Ehrlich ascites tumor EAT once daily for ten days. RESULTS: The number of EAT cells in the peripheral tissues of the Curcumin 50 mg/kg group was significantly less than that of the tumor control group. [4] 	
Cell Research	1×104 B16-R cells are cultivated as monolayer culture for 12 hr. They were then incubated in 200 μL of RPMI, 10% FBS containing curcumin at final concentrations from 1–100 μM in 96-multiwell plates for 24-48 hr. After these incubations, cells are washed twice in PBS and 500 μl of fresh culture medium containing MTT	

A DRUG SCREENING EXPERT

10 mM

50 mM

Reference

different solvents. Please use it as soon as possible.

Solubility Information		0	<u> </u>		
Solubility DMSO: 60 mg/mL (162.88 mM), Ethanol: 1.8 mg/mL (5 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)					
Preparing Stock Solutions					
	1mg	5mg	10mg		
1 mM	2.7146 mL	13.5729 mL	27.1459 mL		
5 mM	0.5429 mL	2.7146 mL	5.4292 mL		

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in

Geng W, Guo X, Zhang L, et al. Resveratrol inhibits proliferation, migration and invasion of multiple myeloma cells via NEAT1-mediated Wnt/β-catenin signaling pathway .Resveratrol inhibits proliferation, migration and invasion of

1.3573 mL

0.2715 mL

2.7146 mL

0.5429 mL

0.2715 mL

0.0543 mL

Inhibitor • Natural Compounds • Compound Libraries • Recombinant Proteins This product is for Research Use Only• Not for Human or Veterinary or Therapeutic Use Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481