碧云天网站 微信公众号
碧云天生物技术/Beyotime Biotechnology
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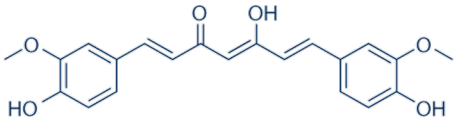
Curcumin (COX抑制剂)

产品编号	产品名称	包装
SC0299-10mM	Curcumin (COX抑制剂)	10mM×0.2ml
SC0299-5mg	Curcumin (COX抑制剂)	5mg
SC0299-25mg	Curcumin (COX抑制剂)	25mg

产品简介：

- **化学信息：**

化学名	(1E,6E)-1,7-bis(4-hydroxy-3-methoxyphenyl)hepta-1,6-diene-3,5-dione
简称	Curcumin
别名	Diferuloylmethane; Turmeric Yellow; Yellow, Turmeric; Natural yellow 3; Indian saffron; HY-N0005
中文名	姜黄素
化学式	$C_{21}H_{20}O_6$
分子量	368.38
CAS号	458-37-7
纯度	99.7%
溶剂/溶解度	Water <1mg/ml; DMSO 74mg/ml; Ethanol <1mg/ml
溶液配制	5mg加入1.36ml DMSO，或每3.68mg加入1ml DMSO，配制成10mM溶液。SC0299-10mM用DMSO配制。



- **生物信息：**

产品描述	A cell-permeable and irreversible antitumor and anti-inflammatory agent that acts as an inhibitor of 5-lipoxygenase (IC50=8μM) and cyclooxygenase (IC50=52μM). Confers significant protection against neurotoxic and genotoxic agents. Also inhibits the induction of nitric oxide synthase in activated macrophages (IC50=6μM). Recently shown to inhibit the EGF receptor intrinsic kinase activity in the human epidermoid carcinoma A431 cells in a dose- and time-dependent manner. Also shown to be a p300/CREB-binding protein-specific inhibitor of histone acetyltransferase, inhibiting the acetylation of histones H3 and H4 with an IC50 of ~25 μM. Does not affect p300/CREB binding protein-associated factor (PCAF).				
信号通路	NF-κB				
靶点	5-lipoxygenase	COX	Nitric Oxide Synthase	—	—
IC50	8μM	52μM	6μM	—	—
体外研究	Curcumin induced the expression of forkhead box protein O1 (FOXO1) through activation of extracellular signal-regulated kinase 1/2 signaling. Curcumin inhibited cell proliferation, which was associated with upregulation of the cyclin-dependent kinase inhibitors, p27 and p21, and downregulation of cyclin D1. Treatment of AGS and HT-29 cells with curcumin enhanced the cleavage of procaspase-3, -7, -8 and -9. Meanwhile, curcumin induced endoplasmic reticulum (ER) stress and mitochondrial dysfunction as evidenced by up-regulation of CCAAT/enhancer binding protein homologous protein (CHOP), phosphorylation of JNK and down-regulation of SERCA2ATPase, release of cytochrome c, decrease of Bcl-2 and reduction of mitochondrial membrane potential in both AGS and HT-29 cells. Curcumin upregulated protein level of NF-kappaB inhibitor IkappaBalpha and downregulated protein levels of c-Jun and AR in prostate cancer cell line.				
体内研究	Chronic treatment with curcumin significantly reversed the CMS-induced behavioral abnormalities (reduced sucrose preference and decreased locomotor activity) in stressed rats. Additionally, curcumin effectively inhibited cytokine gene expression at both the mRNA and the protein level and reduced the activation of NF-κB.				
临床实验	N/A				
特征	N/A				

- **相关实验数据(此数据来自于公开文献，碧云天并不保证其有效性)：**

酶活性检测实验

方法	N/A

细胞实验	
细胞系	N/A
浓度	N/A
处理时间	N/A
方法	N/A

动物实验	
动物模型	N/A
配制	N/A
剂量	N/A
给药方式	N/A

- **参考文献：**

1.Flynn D.L, et al. Prostaglandins Leukot Med. 1986; 22:357-360.

2.Nasiri M, Zarghami N, Koshki KN. Asian Pac J Cancer Prev. 2013; 14(6):3449-53.

3.Cao A, Li Q, Yin P. Apoptosis. 2013 Nov; 18(11):1391-402.

4.Jiang H, Wang Z, Wang Y. Prog Neuropsychopharmacol Biol Psychiatry. 2013 Dec 2; 47:33-9.

5.Guo H, Xu YM, Ye ZQ. Pharmazie. 2013 Jun; 68(6):431-4.

6.Gao S, Duan X, Wang X. Food Chem Toxicol. 2013 Sep; 59:739-47.

包装清单：

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SC0299-10mM	Curcumin (COX抑制剂)	10mM×0.2ml
SC0299-5mg	Curcumin (COX抑制剂)	5mg
SC0299-25mg	Curcumin (COX抑制剂)	25mg
—	说明书	1份

保存条件：

-20ºC保存，至少一年有效。5mg和25mg包装也可以室温保存，至少6个月有效。如果溶于非DMSO溶剂，建议分装后-80ºC保存，预计6个月有效。

注意事项：

- 本产品对人体有刺激性，操作时请小心，并注意适当防护以避免直接接触人体或吸入体内。
- 本产品仅限于专业人员的科学研究用，不得用于临床诊断或治疗，不得用于食品或药品，不得存放于普通住宅内。
- 为了您的安全和健康，请穿实验服并戴一次性手套操作。

使用说明：

1. 收到产品后请立即按照说明书推荐的条件保存。使用前可以在2,000-10,000g离心数秒，以使液体或粉末充分沉降至管底后再开盖使用。
2. 对于10mM溶液，可直接稀释使用。对于固体，请根据本产品的溶解性及实验目的选择相应溶剂配制成高浓度的储备液(母液)后使用。
3. 具体的最佳工作浓度请参考本说明书中的体外、体内研究结果或其它相关文献，或者根据实验目的，以及所培养的特定细胞和组织，通过实验进行摸索和优化。
4. 不同实验动物依据体表面积的等效剂量转换表请参考如下网页：
   http://www.beyotime.com/support/animal-dose.htm

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