

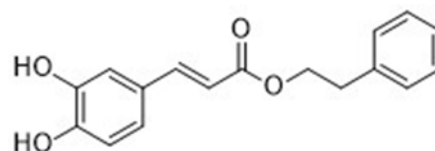
咖啡酸苯乙酯(98%, HPLC)

产品编号	产品名称	包装
SM1026-10mM	咖啡酸苯乙酯(98%, HPLC)	10mM×0.2ml
SM1026-5mg	咖啡酸苯乙酯(98%, HPLC)	5mg
SM1026-25mg	咖啡酸苯乙酯(98%, HPLC)	25mg
SM1026-100mg	咖啡酸苯乙酯(98%, HPLC)	100mg

产品简介:

➤ 化学信息:

中文名	咖啡酸苯乙酯
英文名	Caffeic acid phenethyl ester
中文别名	-
英文别名	CAPE; Phenylethyl caffeate
来源	意大利蜂 <i>Apis mellifera</i> L.
化合物类型	苯丙素类(Phenylpropanoids)>苯丙酸类
化学式	C ₁₇ H ₁₆ O ₄
分子量	284.31
CAS号	104594-70-9
纯度	98%, HPLC
溶剂/溶解度	DMSO: 28.4 mg/mL (100 mM)
溶液配制	5mg加入1.76ml DMSO, 或者每2.84mg加入1ml DMSO, 配制成10mM溶液。



➤ 生物信息

产品描述	Caffeic Acid Phenethyl Ester (CAPE) inhibits the activation of nuclear transcription factor NF-kappa B and may suppress p70S6K and Akt-driven signaling pathways, with antineoplastic, cytoprotective and immunomodulating activities. CAPE is the phenethyl alcohol ester of caffeic acid and a bioactive component of honeybee hive propolis. In addition, CAPE inhibits PDGF-induced proliferation of vascular smooth muscle cells through the activation of p38 mitogen-activated protein kinase (MAPK) and hypoxia-inducible factor (HIF)-1alpha and subsequent induction of heme oxygenase-1 (HO-1).				
信号通路	Apoptosis; NF-κB; PI3K/Akt				
靶点	p38 MAPK	p70S6K	HIF-1α	-	-
IC ₅₀	-	-	-	-	-
体外研究	Caffeic acid phenethyl ester blocks NF-κB activation induced by phorbol ester, ceramide, okadaic acid, and hydrogen peroxide by preventing the translocation of the p65 subunit of NF-κB to the nucleus. In a series of tumor cell lines, Caffeic acid phenethyl ester shows promising antiproliferative activity with EC ₅₀ of 1.76, 3.16, 13.7, and 44.0 μM against murine colon 26-L5, murine B16-BL6 melanoma, human HT-1080 fibrosarcoma and human lung A549 adenocarcinoma cell lines, respectively. Caffeic acid phenethyl ester, as a potent antioxidant, exerts its anti-apoptotic effect in cerebellar granule cells by blocking ROS formation and inhibiting caspase activity. Moreover, Caffeic acid phenethyl ester attenuates the pro-inflammatory phenotype of LPS-stimulated HSCs, and LPS-induced sensitization of HSCs to fibrogenic cytokines by inhibiting NF-κB signaling.				
体内研究	In vivo, Caffeic acid phenethyl ester (10 mg/kg, i.p.) inhibits the growth and angiogenesis of primary tumors in C57BL/6 and BALB/c mice inoculated with Lewis lung carcinoma, colon carcinoma, and melanoma cells. Caffeic acid phenethyl ester (5, 10, 20 mg/kg) also shows				

	immunomodulatory effects in vivo by decreasing thymus weight and/or cellularity of thymus and spleen.
临床实验	N/A

参考文献:

1. Lin HP, et al. Oncotarget. 2015,6(9):6684-707.

包装清单:

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SM1026-100mg	咖啡酸苯乙酯(98%, HPLC)	100mg
-	说明书	1份

保存条件:

-20℃保存, 至少一年有效。固体粉末4℃保存, 至少一个月有效。如果溶于非DMSO溶剂, 建议分装后-80℃保存, 预计6个月内有效。

注意事项:

- 本产品可能对人体有一定的毒害作用, 请注意适当防护, 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于管底后再开盖使用。
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等效剂量转换表请参考如下网页:
<https://www.beyotime.com/support/animal-dose.htm>

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