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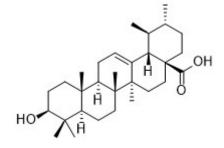
熊果酸(98%, HPLC)

产品编号	产品名称	包装
SM6132-10mM	熊果酸(98%, HPLC)	$10\text{mM} \times 0.2\text{ml}$
SM6132-25mg	熊果酸(98%, HPLC)	25mg
SM6132-100mg	熊果酸(98%, HPLC)	100mg

产品简介:

化学信息:

IC 1 ID SP.	
中文名	熊果酸
英文名	Ursolic acid
中文别名	乌苏酸
英文别名	Prunol; Urson; Malol; Micromerol; Formosolic acid;
	Forucosolic acid; Bungeolic acid; Masterin
来源	匙叶翼首花 <i>Pterocephalus hookeri</i> (C. B. Clarke)
	Hock.;枇杷叶 <i>Eriobotrya japonica</i> (Thunb.) Lindl.
化合物类型	萜类(Terpenoids)>三萜>乌苏烷型五环三萜
化学式	$C_{30}H_{48}O_3$
分子量	456.70
CAS号	77-52-1
纯度	98%, HPLC
溶剂/溶解度	DMSO: 33.33 mg/ml (72.98 mM)
	Water: < 0.1 mg/ml (insoluble)
溶液配制	5mg加入1.09ml DMSO,或者每4.57mg加入1ml DMSO,
	配制成10mM溶液。



▶ 生物信息

产品描述	Ursolic acid (Prunol) is a natural pentacyclic triterpenoid carboxylic acid, exerts anti-tumor effects and is an effective compound for cancer prevention and therapy.				
信号通路	Autophagy; ROCK1/PTEN; Apoptosis				
靶点	АМРКα	DNMT1	Bcl-2	p38	MMP-2
IC ₅₀	-	-	-	-	-
体外研究	UA induced phosphorylation of AMP-activated protein kinase alpha (AMPKα) and suppressed the protein expression of DNA methyltransferase 1 (DNMT1) in the dose-dependent manner. The combination of ursolic acid (0.5 μM) and leucine (10 μM) proved to be the most effective in promoting myogenic differentiation. The combination of ursolic acid and leucine significantly increased CK activity than treatment with either agent alone. The level of myosin heavy chain, a myogenic differentiation marker protein, was also enhanced by the combination of ursolic acid and leucine. Ursolic acid efficiently induced apoptosis, possibly via the downregulation of B-cell lymphoma 2 (Bcl-2), the upregulation of Bcl-2-associated X protein and the proteolytic activation of caspase- Furthermore, the activation of p38 mitogen-activated protein kinase and c-Jun N-terminal kinase was increased by the administration of ursolic acid. In addition, ursolic acid significantly suppressed the invasive phenotype of the SNU-484 cells and significantly decreased the expression of matrix metalloproteinase (MMP)-2. ursolic acid (UA) potently induces the apoptosis of gastric cancer SGC-7901 cells. Further mechanistic studies revealed that the ROCK1/PTEN signaling pathway plays a critical role in UA-mediated mitochondrial translocation of cofilin-1 and apoptosis.				
体内研究	UA treatment markedly improved the survival of septic rats, and attenuated CLP-induced lung injury, including reduction of lung wet/dry weight ratio, infiltration of leukocytes and proteins, myeloperoxidase activity, and malondialdehyde content. In addition, UA significantly decreased the serum levels of tumor necrosis factor-α, interleukin-6, and interleukin-1β, inhibited the				

	expression of inducible nitric oxide synthase and cyclooxygenase-2 in the lung, which are involved in the productions of nitric oxide and prostaglandin E2.		
临床实验	NCT02337933: Metabolic Syndrome X, Phase 2; NCT03216876: Primary Sclerosing Cholangitis, Phase 1.		

参考文献:

- 1. Yie Y, et al. Mol Cell Biochem. 2015,402(1-2):63-74.
- 2. Kim M, et al. Int J Mol Med. 2015,35(3):755-62.
- 3. Kim ES, et al. Oncol Lett. 2015,9(2):897-902.
- 4. Li R, et al. Asian Pac J Cancer Prev. 2014,15(22):9593-7.
- 5. Hu Z, et al. J Surg Res. 2015,194(2):528-536.

包装清单:

产品编号	产品名称	包装
SM6132-10mM	熊果酸(98%, HPLC)	$10\text{mM} \times 0.2\text{ml}$
SM6132-25mg	熊果酸(98%, HPLC)	25mg
SM6132-100mg	熊果酸(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: https://www.beyotime.com/support/animal-dose.htm

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