

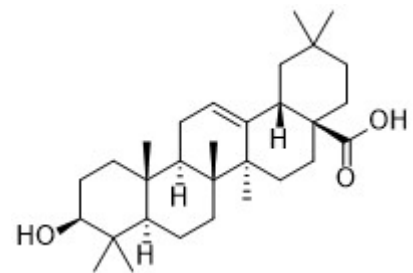
## 齐墩果酸(98%, HPLC)

产品编号	产品名称	包装
SM6060-10mM	齐墩果酸(98%, HPLC)	10mM×0.2ml
SM6060-25mg	齐墩果酸(98%, HPLC)	25mg
SM6060-100mg	齐墩果酸(98%, HPLC)	100mg

### 产品简介:

#### ➤ 化学信息:

中文名	齐墩果酸
英文名	Oleanolic acid
中文别名	-
英文别名	Oleanol; Caryophyllin
来源	枇杷叶 <i>Eriobotrya japonica</i> Thunb.
化合物类型	萜类(Terpenoids)>三萜>齐墩果烷型五环三萜
化学式	C <sub>30</sub> H <sub>48</sub> O <sub>3</sub>
分子量	456.70
CAS号	508-02-1
纯度	98%, HPLC
溶剂/溶解度	DMSO: 5 mg/ml (10.95 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	Oleanolic acid (Caryophyllin) is a natural compound from plants with anti-tumor activities.				
信号通路	Autophagy; p38 MAPK; JNK; ERK				
靶点	CCNG1	MEF2D	IL-10	IL-35	-
IC <sub>50</sub>	-	-	-	-	-
体外研究	Oleanolic acid (OA) suppresses the proliferation of lung cancer cells in both dose- and time-dependent manners, along with an increase in miR-122 abundance. CCNG1 and MEF2D, two putative miR-122 targets, are found to be downregulated by OA treatment. OA induces autophagy in normal tissue-derived cells without cytotoxicity. OA-induced autophagy is shown to decrease the proliferation of KRAS-transformed normal cells and to impair their invasion and anchorage-independent growth.				
体内研究	Mouse model experiments also demonstrate that OA suppresses the growth of KRAS-transformed breast epithelial cell MCF10A-derived tumor xenograft by inducing autophagy. Activation of MAPK pathways, including p-38 MAPK, JNK and ERK, is triggered by OA in both a dose and time-dependent fashion in all the tested cancer cells. OA induces p38 MAPK activation promoted mitochondrial translocation of Bax and Bim, and inhibits Bcl-2 function by enhancing their phosphorylation. OA can induce reactive oxygen species (ROS)-dependent ASK1 activation, and this event is indispensable for p38 MAPK-dependent apoptosis in cancer cells. It is also proved that p38 MAPK knockdown A549 tumors are resistant to the growth-inhibitory effect of OA. In OA-treated EAM mice the number of Treg cells and the production of IL-10 and IL-35 are markedly increased, while proinflammatory and profibrotic cytokines are significantly reduced.				
临床实验	NCT01674946: Echolocation, Phase 1.				

### 参考文献:

1. Zhao X, et al. Mol Cell Biochem. 2015,400(1-2):1-7.
2. Liu J, et al. J Nutr Biochem. 2014,25(11):1154-60.

3. Liu J, et al. Asian Pac J Cancer Prev. 2014,15(11):4519-25.
4. Martín R, et al. J Mol Cell Cardiol. 2014,72:250-62.

#### 包装清单:

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SM6060-25mg	齐墩果酸(98%, HPLC)	25mg
SM6060-100mg	齐墩果酸(98%, HPLC)	100mg
-	说明书	1份

#### 保存条件:

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