

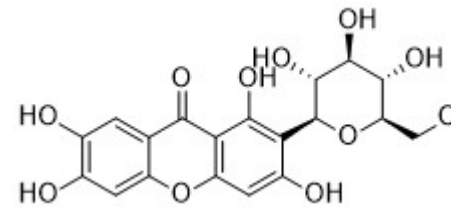
## 芒果苷(98%, HPLC)

产品编号	产品名称	包装
SM2001-10mM	芒果苷(98%, HPLC)	10mM×0.2ml
SM2001-5mg	芒果苷(98%, HPLC)	5mg
SM2001-25mg	芒果苷(98%, HPLC)	25mg
SM2001-100mg	芒果苷(98%, HPLC)	100mg

### 产品简介:

#### ➤ 化学信息:

中文名	芒果苷
英文名	Mangiferin
中文别名	杧果甙; 芒果甙
英文别名	Euxanthogen; Chinomine; Alpizarin; Hedysaride; Mannipherin; Chedisaride; Shamimin
来源	红花龙胆 <i>Gentiana rhodantha</i> Franch.; 知母 <i>Anemarrhena asphodeloides</i> Bunge
化合物类型	黄酮类(Flavonoids)> (口山) 酮
化学式	C <sub>19</sub> H <sub>18</sub> O <sub>11</sub>
分子量	422.34
CAS号	4773-96-0
纯度	98%, HPLC
溶剂/溶解度	DMSO: 22 mg/ml (52.09 mM; Need ultrasonic and warming)
溶液配制	5mg加入1.18ml DMSO, 或者每4.22mg加入1ml DMSO, 配制成10mM溶液。



#### ➤ 生物信息

产品描述	Mangiferin is a Nrf2 activator. Mangiferin suppresses nuclear translocation of the NF-κB subunits p65 and p50.				
信号通路	-				
靶点	p65	p50	Nrf2	-	-
IC <sub>50</sub>	-	-	-	-	-
体外研究	Mangiferin is glucosylxanthone extracted from plants of the Anacardiaceae and Gentianaceae families. Mangiferin (50 μM) significantly increases Nrf2 protein accumulation in HL-60 cells, particularly in the nucleus. Mangiferin also enhances the binding of Nrf2 to an antioxidant response element (ARE), significantly up-regulates NAD(P)H:quinone oxidoreductase 1 (NQO1) expression and reduces intracellular ROS in HL60 cells. Mangiferin alone dose-dependently inhibits the proliferation of HL-60 cells. In mononuclear cells (MNCs), Mangiferin significantly relieves oxidative stress, but attenuates etoposide-induced cytotoxicity. Mangiferin is a natural phytopolyphenol that exhibits various pharmacological properties. Mangiferin is present in several plant species such as <i>Mangifera indica</i> , <i>Iris unguicularis</i> , and <i>Anemarrhena asphodeloides</i> . Mangiferin downregulates TNF-α-induced MMP-9 mRNA and protein expression by suppressing NF-κB activity, consequently suppressing the invasion of LNCaP cells. To assess whether Mangiferin influences the viability of LNCaP cells, MTT assay is performed 24 h after treatment with different concentrations of Mangiferin in the presence or absence of TNF-α in serum and serum-free conditions. There are no cytotoxic evident in LNCaP cells treated with up to 400 μM of Mangiferin alone under both serum and serum-free conditions. Additionally, in the presence of TNF-α (20 ng/ml), Mangiferin does not affect cell viability. Mangiferin (400 μM) treatment				

	significantly decreases the NF- $\kappa$ B luciferase activity in TNF- $\alpha$ -stimulated LNCaP cells. Pretreatment with Mangiferin (400 $\mu$ M) for 1 h significantly decreases TNF- $\alpha$ -induced NF- $\kappa$ B activity. The RT-PCR shows that Mangiferin (400 $\mu$ M) significantly suppresses the TNF- $\alpha$ -induced MMP-9 expression in LNCaP cells.
体内研究	N/A
临床实验	N/A

#### 参考文献:

1. Zhang BP, et al. Acta Pharmacol Sin. 2014,35(2):257-66.
2. Dilshara MG, et al. BMB Rep. 2015,48(10):559-64.

#### 包装清单:

产品编号	产品名称	包装
SM2001-10mM	芒果苷(98%, HPLC)	10mM $\times$ 0.2ml
SM2001-5mg	芒果苷(98%, HPLC)	5mg
SM2001-25mg	芒果苷(98%, HPLC)	25mg
SM2001-100mg	芒果苷(98%, HPLC)	100mg
-	说明书	1份

#### 保存条件:

-20 $^{\circ}$ C保存, 至少一年有效。固体粉末4 $^{\circ}$ C保存, 至少一个月有效。如果溶于非DMSO溶剂, 建议分装后-80 $^{\circ}$ 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>

Version 2021.05.13