

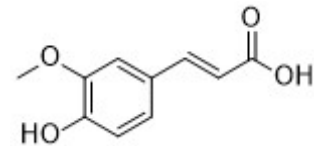
## 阿魏酸(98%, HPLC)

产品编号	产品名称	包装
SM1008-10mM	阿魏酸(98%, HPLC)	10mM×0.2ml
SM1008-25mg	阿魏酸(98%, HPLC)	25mg
SM1008-100mg	阿魏酸(98%, HPLC)	100mg

### 产品简介:

#### ➤ 化学信息:

中文名	阿魏酸
英文名	Ferulic acid
中文别名	-
英文别名	Coniferic acid
来源	川芎 <i>Ligusticum chuanxiong</i> hort.
化合物类型	苯丙素类(Phenylpropanoids)>苯丙酸类
化学式	C <sub>10</sub> H <sub>10</sub> O <sub>4</sub>
分子量	194.18
CAS号	1135-24-6
纯度	98%, HPLC
溶剂/溶解度	DMSO: 100 mg/ml (514.99 mM)
溶液配制	2mg加入1.03ml DMSO, 或者每1.94mg加入1ml DMSO, 配制成10mM溶液。



#### ➤ 生物信息

产品描述	Ferulic acid is a novel fibroblast growth factor receptor 1 (FGFR1) inhibitor with IC <sub>50</sub> s of 3.78 and 12.5 μM for FGFR1 and FGFR2, respectively.				
信号通路	PI3K/Akt				
靶点	FGFR1	FGFR2	MMP-2	MMP-9	-
IC <sub>50</sub>	3.78 μM	12.5 μM	-	-	-
体外研究	Ferulic acid (FA) is a novel fibroblast growth factor receptor 1 (FGFR1) inhibitor with IC <sub>50</sub> s of 3.78 and 12.5 μM for FGFR1 and FGFR2, respectively. Ferulic acid exhibits great inhibitory activity on FGFR1 with an inhibitory rate of 92% at 1 μM. The proliferation of HUVEC stimulated by FGF1 is markedly decreased after Ferulic acid treatment ranging from 5 to 40 μM for 24 h. Ferulic acid does not exert significant cell viability up to 20 μM, but over 30 μM Ferulic acid exhibits a cytotoxic effect in HUVEC compare to the control. Ferulic acid inhibits FGF1-induced HUVEC migration and invasion in a dose-dependent manner. Ferulic acid markedly suppresses the FGF1-induced phosphorylation of PI3K and Akt. Ferulic acid treatments significantly inhibit MMP-2 and MMP-9 expression stimulated by FGF1.				
体内研究	Treatment with Ferulic acid (FA) potently inhibits FGF1-induced neovascularization. It is found that intragastric administration of Ferulic acid markedly inhibits tumor volume and tumor weight, as compare to the counterparts treated with DMSO. Furthermore, Ferulic acid treatment is well tolerated, and there is no significant difference in weight between the vehicle group and the FA-treated groups. Ferulic acid (0.01, 0.1, 1 or 10 mg/kg) given by oral route decreases significantly the immobility time in the forced swimming test (FST) and tail suspension test (TST), whereas produces no effect in the open-field test. Results demonstrate that the administration of Ferulic acid (0.001 mg/kg, p.o.) boosts the antidepressant-like effect of fluoxetine (5 mg/kg, p.o.) in the TST.				
临床实验	NCT00777543: Healthy Males, Not Applicable.				

### 参考文献:

1. Yang GW, et al. Int J Mol Sci. 2015,16(10):24011-31.

2. Zeni AL, et al. Eur J Pharmacol. 2012,679(1-3):68-74.

#### 包装清单:

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SM1008-25mg	阿魏酸(98%, HPLC)	25mg
SM1008-100mg	阿魏酸(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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