



碧云天生物技术/Beyotime Biotechnology  
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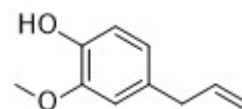
## 丁香酚(98%, HPLC)

产品编号	产品名称	包装
SM1060-25mg	丁香酚(98%, HPLC)	25mg
SM1060-100mg	丁香酚(98%, HPLC)	100mg

### 产品简介:

#### ➤ 化学信息:

中文名	丁香酚
英文名	Eugenol
中文别名	丁香油酚; 丁子香酚; 丁子香酸; 烯丙基甲氧基苯酚; 异丁香酚苯乙醚
英文别名	4-Allyl-2-methoxyphenol; 5-Allylguaiacol
来源	丁香 <i>Eugenia caryophyllata</i> Thunb.; 肉豆蔻 <i>Myristica fragrans</i> Houtt.
化合物类型	苯丙素类(Phenylpropanoids) > 苯丙烯类
化学式	C <sub>10</sub> H <sub>12</sub> O <sub>2</sub>
分子量	164.21
CAS号	97-53-0
纯度	98%, HPLC
溶剂/溶解度	DMSO: ≥ 100 mg/ml (609.01 mM)
溶液配制	2mg加入1.22ml DMSO, 或者每1.64mg加入1ml DMSO, 配制成10mM溶液。



#### ➤ 生物信息

产品描述	Eugenol is an essential oil found in cloves with antibacterial, anthelmintic and antioxidant activity. Eugenol is shown to inhibit lipid peroxidation.				
信号通路	-				
靶点	Bacterial	Parasite	-	-	-
IC <sub>50</sub>	-	-	-	-	-
体外研究	The essential oil of <i>O. gratissimum</i> , as well as eugenol, are efficient in inhibiting eclodibility of <i>H. contortus</i> eggs, showing possible utilizations in the treatment of gastrointestinal helminthosis of small ruminants. At 0.50% concentration, the essential oil and eugenol show a maximum eclodibility inhibition. Eugenol inhibits superoxide anion generation in xanthine-xanthine oxidase system to an extent of 50% at concentrations of 250 μM. Eugenol also inhibits the generation of hydroxyl radicals to an extent of 70%. The OH-radical formation measured by the hydroxylation of salicylate to 2, 3-dihydroxy benzoate is inhibited to an extent of 46% by eugenol at 250 μM. Eugenol protects against RS-induced development of IBS-like gastrointestinal dysfunction through modulation of HPA-axis and brain monoaminergic pathways apart from its antioxidant effect. Eugenol (50mg/kg) reduces 80% of RS-induced increase in fecal pellets similar to that of ondansetron. Eugenol attenuates 80% of stress-induced increase in plasma corticosterone and modulates the serotonergic system in the PFC and amygdala. Eugenol attenuates stress-induced changes in norepinephrine and potentiates the antioxidant defense system in all brain regions.				
体内研究	Eugenol (33 mg/kg) administered orally for 2 days causes significant suppression of knee joint edema, which continues to be significantly reduced at the end of the treatment. After 2 days, eugenol-treated mycobacterial arthritic rats show a marked reduction in paw swelling.				
临床实验	NCT03437655: MTA Dental Restoration, Temporary, Not Applicable.				

### 参考文献:

1. Pessoa LM, et al. 2002,109(1-2):59-63.  
2. Reddy AC, et al. Mol Cell Biochem. 1994,137(1):1-8.  
3. Garabadu D, et al. Pharm Biol. 2015,53(7):968-74.  
4. Sharma JN, et al. 1994,49(5):314-8.

包装清单：

产品编号	产品名称	包装
SM1060-25mg	丁香酚(98%, HPLC)	25mg
SM1060-100mg	丁香酚(98%, HPLC)	100mg
-	说明书	1 份

保存条件：

-20℃避光保存，至少一年有效。

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，以使液体充分沉降至管底后再开盖使用。
2. 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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