

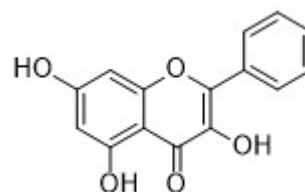
高良姜素(98%, HPLC)

产品编号	产品名称	包装
SM2139-10mM	高良姜素(98%, HPLC)	10mM×0.2ml
SM2139-5mg	高良姜素(98%, HPLC)	5mg
SM2139-25mg	高良姜素(98%, HPLC)	25mg
SM2139-100mg	高良姜素(98%, HPLC)	100mg

产品简介:

➤ 化学信息:

中文名	高良姜素
英文名	Galangin
中文别名	高良姜精
英文别名	-
来源	高良姜 <i>Alpinia officinarum</i> Hance
化合物类型	黄酮类(Flavonoids)>黄酮>黄酮醇
化学式	C ₁₅ H ₁₀ O ₅
分子量	270.24
CAS号	548-83-4
纯度	98%, HPLC
溶剂/溶解度	DMSO: ≥ 36 mg/ml (133.21 mM)
溶液配制	5mg加入1.85ml DMSO, 或者每2.70mg加入1ml DMSO, 配制成10mM溶液。



➤ 生物信息

产品描述	Galangin (Norisalpinin) is an agonist/antagonist of the arylhydrocarbon receptor. Galangin (Norisalpinin) also shows inhibition of CYP1A1 activity.				
信号通路	-				
靶点	CYP1A1	-	-	-	-
IC ₅₀	-	-	-	-	-
体外研究	Galangin inhibits the catabolic breakdown of DMBA, as measured by thin-layer chromatography, in a dose-dependent manner. Galangin also inhibits the formation of DMBA-DNA adducts, and prevents DMBA-induced inhibition of cell growth. Galangin causes a potent, dose-dependent inhibition of CYP1A1 activity, as measured by ethoxyresorufin-O-deethylase activity, in intact cells and in microsomes isolated from DMBA-treated cells. Analysis of the inhibition kinetics by double-reciprocal plot demonstrates that galangin inhibits CYP1A1 activity in a noncompetitive manner. Galangin causes an increase in the level of CYP1A1 mRNA, indicating that it may be an agonist of the aryl hydrocarbon receptor, but it inhibits the induction of CYP1A1 mRNA by DMBA or by 2,3,5,7-tetrachlorodibenzo-p-dioxin (TCDD). Galangin also inhibits the DMBA- or TCDD-induced transcription of a reporter vector containing the CYP1A1 promoter. Galangin treatment inhibits cell proliferation and induced autophagy (130 μM) and apoptosis (370 μM). In particular, galangin treatment in HepG2 cells causes an accumulation of autophagosomes, elevated levels of microtubule-associated protein light chain 3, and an increased percentage of cells with vacuoles. p53 expression is also increased. The galangin-induced autophagy is attenuated by the inhibition of p53 in HepG2 cells, and overexpression of p53 in Hep3B cells restored the galangin-induced higher percentage of cells with vacuoles to normal level.				
体内研究	N/A				
临床实验	N/A				

参考文献:

1. Ciolino HP, et al. Br J Cancer. 1999,79(9-10):1340-6.
2. Wen M, et al. Pharmacology. 2012,89(5-6):247-55.

包装清单:

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-	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