

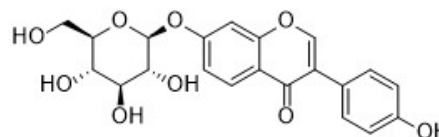
大豆苷(98%, HPLC)

产品编号	产品名称	包装
SM2207-10mM	大豆苷(98%, HPLC)	10mM×0.2ml
SM2207-5mg	大豆苷(98%, HPLC)	5mg
SM2207-25mg	大豆苷(98%, HPLC)	25mg
SM2207-100mg	大豆苷(98%, HPLC)	100mg

产品简介:

➤ 化学信息:

中文名	大豆苷
英文名	Daidzin
中文别名	黄豆甙; 大豆甙; 豆苷; 黄豆苷
英文别名	Daidzein 7-O-β-D-glucopyranoside; Daidzoid
来源	大豆 <i>Glycine max</i> (Linn.) Merr.; 葛 <i>Pueraria lobata</i> (Willd.) Ohwi
化合物类型	黄酮类(Flavonoids)>异黄酮
化学式	C ₂₁ H ₂₀ O ₉
分子量	416.38
CAS号	552-66-9
纯度	98%, HPLC
溶剂/溶解度	DMSO: ≥ 34 mg/ml (81.66 mM); Water: < 0.1 mg/ml (insoluble)
溶液配制	5mg加入1.20ml DMSO, 或者每4.16mg加入1ml DMSO, 配制成10mM溶液。



➤ 生物信息

产品描述	Daidzin is an isoflavone that has anti-oxidant, anti-carcinogenic, and anti-atherosclerotic activities; directly inhibits mitochondrial aldehyde dehydrogenase 2 (IC ₅₀ = 80 nM) and is an effective anti-dipsotropic isoflavone.				
信号通路	-				
靶点	ALDH- I	ALDH- II	Mitochondrial Aldehyde Dehydrogenase 2	-	-
IC ₅₀	40nM	20μM	80 nM	-	-
体外研究	Daidzin, a glycoside of daidzein, increases the transcriptional activity of RARα and RARγ but does not bind to the RARs. Daidzin does not inhibit human class I, II, or III alcohol dehydrogenases, nor does it have any significant effect on biological systems that are known to be affected by other isoflavones. Daidzin inhibits human ALDH-I and ALDH-II in a concentration-dependent manner. Daidzin inhibits both ALDH-I and ALDH-II in an apparently competitive manner with K _i values of 40 nM and 20 μM, respectively, and it inhibits ALDH-I uncompetitively with respect to NAD ⁺ . The inhibition of ALDH-I by daidzin is reversible.				
体内研究	Daidzin has no effect on alcohol-metabolizing enzymes(i.e., ADH and ALDH) when given to rats intragastrically. Chronic daidzin administration exerts an effect on alcohol pharmacokinetics, although the effect is less pronounced than when the compound is administered concurrently with ethanol. The compound is shown to shorten sleep time if ethanol is given intragastrically, but not when given intraperitoneally, indicating absence of effect on ethanol elimination rate. Daidzin delays ethanol absorption and lessens alcohol intoxication. The compound is shown to suppress the levels of BAC(blood alcohol concentration) for the first 3 hr after alcohol ingestion in both				

	fasted and fed rats. These effects of daidzin may in part be due to its antioxidant activity.
临床实验	NCT02309801: Healthy, Phase 1.

参考文献:

1. Xie CI, et al. Alcohol Clin Exp Res. 1994,18(6):1443-7.
2. Keung WM, et al. Phytochemistry. 1998,47(4):499-506.
3. Keung WM, et al. Proc Natl Acad Sci U S A. 1997,94(5):1675-9.
4. Oh HJ, et al. Mol Cell Endocrinol. 2013,376(1-2):107-13.
5. Keung WM, et al. Proc Natl Acad Sci U S A. 1993,90(4):1247-51.

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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