

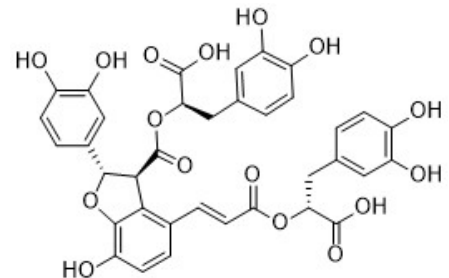
丹酚酸B (98%, HPLC)

产品编号	产品名称	包装
SM1015-5mg	丹酚酸 B (98%, HPLC)	5mg
SM1015-25mg	丹酚酸 B (98%, HPLC)	25mg
SM1015-100mg	丹酚酸 B (98%, HPLC)	100mg

产品简介:

➤ 化学信息:

中文名	丹酚酸B
英文名	Salvianolic acid B
中文别名	丹参酚酸B; 丹酚酸乙; 紫草酸B
英文别名	Lithospermic acid B; Danshensuan B
来源	丹参 <i>Salvia miltiorrhiza</i> Bunge
化合物类型	苯丙素类(Phenylpropanoids)>苯丙酸类
化学式	C ₃₆ H ₃₀ O ₁₆
分子量	718.61
CAS号	121521-90-2
纯度	98%, HPLC
溶剂/溶解度	Water : 50 mg/ml (69.58 mM; adjust pH to 3 with HCl); DMSO: 25 mg/ml (34.79 mM)
溶液配制	10mg 加入 1.39ml DMSO, 或者每 7.19mg 加入 1ml DMSO, 配制成10mM溶液。



➤ 生物信息

产品描述	Salvianolic acid B is an active ingredient of <i>Salvia miltiorrhiza</i> , which has been widely applied in China for the management of various microcirculation-related disorders, such as cardiovascular disease, cerebrovascular disease, and diabetic vascular complication.				
信号通路	Inflammatory				
靶点	MAPK	-	-	-	-
IC ₅₀	1 μM	-	-	-	-
体外研究	Salvianolic acid B (SA-B) 1 and 10 micromol/L decrease the cell active TGF-beta1 secretion by 63.3 % and 15.6 % of the control, down-regulate pro-collagen alpha1(I) mRNA expression to 77.0% and 51.8% respectively (P<0.05). SA-B 1 and 10 micromol/L also inhibit MAPK activity by 1 to 2 fold respectively. The degradation of Salvianolic acid B is temperature dependent. It was stable at 4°C for 30 h in aqueous solution. However, decomposition of Salvianolic acid B aqueous solution occurs automatically at 25°C, and is enhanced at 37, 65 and 100°C. On the other hand, Salvianolic acid B is also stable at 4, 25 and 37°C for 30 h in TPA (total phenolic acids). Salvianolic acid B is stable for 30 h in buffered phosphate aqueous solutions at pH 1.5, 3.0 and 5.0. With an increase of pH from the neutral, the stability of Sal B decreased.				
体内研究	Salvianolic acid B (SalB) (5 mg · kg ⁻¹ · h ⁻¹) significantly attenuates LPS-induced pulmonary microcirculatory disturbance, including the increase in leukocyte adhesion and albumin leakage. In addition, LPS increases pulmonary tissue wet-to-dry weight ratio and tumor necrosis factor [alpha] and interleukin 8 levels in plasma and bronchoalveolar lavage fluid enhances the expression of E-selectin, intercellular adhesion molecule 1, myeloperoxidase, MMP-2, and MMP-9, whereas it decreases the expression of AQP-1 and AQP-5 in pulmonary tissue, all of which are attenuated by SalB pretreatment. SalB administration (10 mg/kg) significantly ameliorate the Aβ25-35 peptide-induced memory impairment in the passive avoidance task (P<0.05). SalB				

	treatment also reduced the number of activated microglia and astrocytes that are observed during the inflammatory reaction after the administration of the A β 25-35 peptide. Moreover, SalB markedly reduce inducible nitric oxide synthase and cyclooxygenase-2 expression levels and thiobarbituric acid reactive substances, which are increased by the administration of the A β 25-35 peptide. Furthermore, SalB administration significantly rescue the A β 25-35 peptide-induced decrease of choline acetyltransferase and brain-derived neurotrophic factor protein levels.
临床实验	N/A

参考文献:

1. Lee YW, et al. Eur J Pharmacol. 201,704(15):70-7.
2. Liu P, et al. Acta Pharmacol Sin. 2002,23(8):733-8.
3. Lin, Fang, et al. Shock. 2013,39(3):317-25.
4. Man Xu, et al. Natural Product Communications. 2008,3(5):669-676.

包装清单:

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-	说明书	1 份

保存条件:

-20°C保存，至少一年有效。固体粉末4°C保存，至少一个月有效。如果溶于非DMSO溶剂，建议分装后-80°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，使粉末充分沉降至管底后再开盖使用。
2. 该产品在溶液中不稳定，建议现用现配。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。
3. 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