

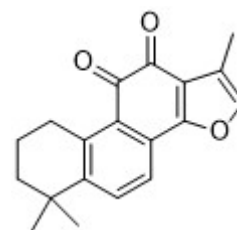
丹参酮IIA (98%, HPLC)

产品编号	产品名称	包装
SM5148-25mg	丹参酮 IIA (98%, HPLC)	25mg
SM5148-100mg	丹参酮 IIA (98%, HPLC)	100mg

产品简介:

➤ 化学信息:

中文名	丹参酮IIA
英文名	Tanshinone IIA
中文别名	-
英文别名	Tanshinone B; Dan Shen ketone
来源	丹参 <i>Salvia miltiorrhiza</i> Bunge
化合物类型	生物合成: 萜类(Terpenoids)>二萜(含有松香烷型骨架的20-去甲二萜类化合物); 结构上: 菲醌
化学式	C ₁₉ H ₁₈ O ₃
分子量	294.34
CAS号	568-72-9
纯度	98%, HPLC
溶剂/溶解度	DMSO: 3.85 mg/mL (13.08 mM)
溶液配制	5mg加入1.70ml DMSO, 或者每2.94mg加入1ml DMSO, 配制成10mM溶液。



➤ 生物信息

产品描述	Tanshinone IIA is the diterpene quinone in Danshen, which is utilized in the treatment of cardiovascular and inflammatory. Tanshinone IIA is utilized in the treatment of cardiovascular and inflammatory.				
信号通路	Apoptosis; PI3K/Akt/mTOR				
靶点	VEGF	VEGFR2	PTEN	EGFR	IGFR
IC ₅₀	-	-	-	-	-
体外研究	The anti-tumor effect of Tanshinone IIA includes inhibiting tumor cell proliferation, disturbing tumor cell cycle, promoting tumor cell apoptosis, and inhibiting tumor cell invasion and transfer. Tanshinone IIA has anti-proliferative effects on A549 cells: the IC ₅₀ of Tanshinone IIA after 24, 48 and 72 h are 145.3, 30.95 and 11.49 μM, respectively. The CCK-8 assay is used to evaluate the proliferative activity of A549 cells treated with Tanshinone IIA (2.5-80 μM) for 24, 48 and 72 h, respectively. The CCK-8 results show that Tanshinone IIA can significantly inhibit A549 cell proliferation in a dose- and time-dependent manner. Obvious apoptosis and cell growth inhibition of A549 cells are observed after drug treatment for 48 h (concentrations used are approximately IC ₅₀ values: Tanshinone IIA 31 μM on A549). Western blotting finds that 48 h exposures to Tanshinone IIA (31 μM) in A549 cells, downregulates expression of VEGF and VEGFR2 protein in both drug treatment groups vs. vehicle. Tanshinone IIA, one of the most abundant constituents of the root of <i>Salvia miltiorrhiza</i> , protects rat myocardium-derived H9C2 cells against apoptosis. Treatment of H9C2 cells with Tanshinone IIA inhibits angiotensin II-induced apoptosis by downregulating the expression of PTEN (phosphatase and tensin homolog), a tumor suppressor that plays a critical role in apoptosis. Tanshinone IIA inhibits angiotensin II (AngII)-induced apoptosis by downregulating the expression of phosphatase and tensin homolog (PTEN). Tanshinone IIA decreases the protein expression of EGFR, and IGFR blocking the PI3K/Akt/mTOR pathway in gastric carcinoma AGS cells.				
体内研究	N/A				
临床实验	N/A				

参考文献：

1. Xie J, et al. Acta Pharm Sin B. 2015,5(6):554-63.
2. Zhang Z, et al. Am J Transl Res. 2016,8(7):3124-32.
3. Su CC, et al. Oncol Rep. 2016, 36(2):1173-9.

包装清单：

产品编号	产品名称	包装
SM5148-25mg	丹参酮 IIA (98%, HPLC)	25mg
SM5148-100mg	丹参酮 IIA (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，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 2022.04.25