

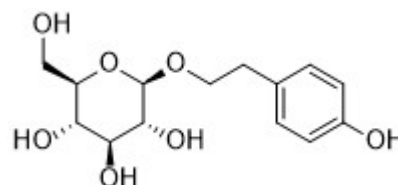
红景天苷(98%, HPLC)

产品编号	产品名称	包装
SM8036-25mg	红景天苷(98%, HPLC)	25mg
SM8036-100mg	红景天苷(98%, HPLC)	100mg

产品简介:

➤ 化学信息:

中文名	红景天苷
英文名	Salidroside
中文别名	毛柳甙; 红景天甙
英文别名	Rhodosin; Rhodioloside
来源	大花红景天 <i>Rhodiola crenulata</i> (HK. f. et.Thoms) H. Ohba
化合物类型	酚类(Phenols)
化学式	C ₁₄ H ₂₀ O ₇
分子量	300.30
CAS号	10338-51-9
纯度	98%, HPLC
溶剂/溶解度	Water: ≥ 100 mg/ml (333.00 mM)
溶液配制	5mg加入1.67ml 水, 或者每3.00mg加入1ml 水, 配制成10mM溶液。



➤ 生物信息

产品描述	Salidroside is a prolyl endopeptidase Inhibitor. Salidroside alleviates cachexia symptoms in mouse models of cancer cachexia via activating mTOR signalling. Salidroside protects dopaminergic neurons by enhancing PINK1/Parkin-mediated mitophagy.				
信号通路	mTOR				
靶点	Prolyl Endopeptidase (PEP)	-	-	-	-
IC ₅₀	100 μM	-	-	-	-
体外研究	Salidroside (100μM) inhibits prolyl endopeptidase (PEP) activity (10.6±1.9%). Prolyl endopeptidase is an enzyme that plays a role in the metabolism of proline-containing neuropeptide which is recognized to be involved in learning and memory. Salidroside, one of the major phenylpropanoid glycosides found in <i>R. rosea</i> L, is consumed almost daily as a nutritional supplement in many countries and has been identified possessing potential anti-fatigue and anoxia, anti-aging, and anti-Alzheimer's disease activities. Salidroside can improve muscle nutrition via increasing mTOR, p-mTOR, and MyHC expression. SH-SY5Y cells are exposed to 0-600μM MPP+ for 12-48h and the results show that MPP+ results in a significant decrease of cell viability in a concentration and time-dependent manner. Cells are pretreated with 25-100μM Salidroside (Sal) for 24h and then exposed to 500μM MPP+ for an additional 24h. Salidroside concentration-dependently prevents MPP+-induced decrease of cell viability. Annexin V/PI staining is a common method for the detection of apoptotic cell. Salidroside significantly decreases the number of Annexin V/PI-stained cells treated by MPP+ which is in a concentration-dependent manner. Apoptotic cell could also be morphologically evaluated by Hoechst staining. In Hoechst staining, apoptotic cells are characterized by reduced nuclear size, chromatin condensation, intense fluorescence, and nuclear fragmentation. Salidroside notably inhibits MPP+-induced increase of chromatin condensation, intense fluorescence, and nuclear fragmentation in SH-SY5Y cells.				
体内研究	Salidroside is a natural antioxidant extracted from medicinal food plant <i>Rhodiola rosea</i> . Salidroside				

	(100 mg/kg/day) shows strong glucose lowering effect on db/db mice which is similar to effect of Metformin (200 mg/kg/day). For this reason, the dose of 100 mg/kg/day salidroside is used.
临床实验	N/A

参考文献:

1. Fan W, et al. Chem Pharm Bull (Tokyo). 2001,49(4):396-401.
2. Ju L, et al. Front Pharmacol. 2017,8:749.
3. Chen X, et al. J Cachexia Sarcopenia Muscle. 2016,7(2):225-32.
4. Wu L, et al. Evid Based Complement Alternat Med. 2017,2017:5398542.
5. Li R, et al. Oxid Med Cell Longev. 2019,2019:9341018.

包装清单:

产品编号	产品名称	包装
SM8036-25mg	红景天苷(98%, HPLC)	25mg
SM8036-100mg	红景天苷(98%, HPLC)	100mg
-	说明书	1份

保存条件:

-20°C避光保存, 至少一年有效。固体粉末4°C避光保存, 至少一个月有效。如果溶于非DMSO溶剂, 建议分装后-80°C避光保存, 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. 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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