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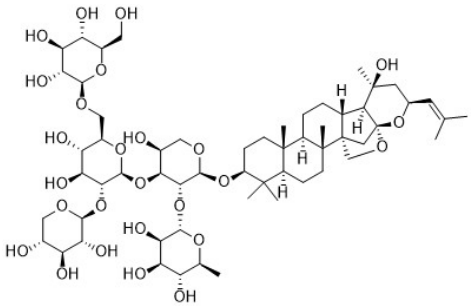
酸枣仁皂苷A (98%, HPLC)

产品编号	产品名称	包装
SM6048-10mM	酸枣仁皂苷 A (98%, HPLC)	10mM×0.2ml
SM6048-5mg	酸枣仁皂苷 A (98%, HPLC)	5mg
SM6048-25mg	酸枣仁皂苷 A (98%, HPLC)	25mg
SM6048-100mg	酸枣仁皂苷 A (98%, HPLC)	100mg

产品简介：

- **化学信息：**

中文名	酸枣仁皂苷A
英文名	Jujuboside A
中文别名	-
英文别名	Arecoline Hydrobromide
来源	酸枣*Ziziphus jujuba* Mill. var. spinosa (Bunge) Hu ex H. F. Chow；枣*Ziziphus jujuba* Mill.
化合物类型	萜类(Terpenoids)>三萜>达玛烷型四环三萜皂苷
化学式	$C_{58}H_{94}O_{26}$
分子量	1207.35
CAS号	55466-04-1
纯度	98%, HPLC
溶剂/溶解度	DMSO: 82.8 mM; Water: 50 mg/ml (41.41 mM)
溶液配制	15mg 加入 1.24ml DMSO，或者每 12.07mg 加入 1ml DMSO，配制成10mM溶液。



- **生物信息**

产品描述	Jujuboside A is a glycoside extracted from Semen Ziziphi Spinosae, a Chinese herbal medicine used to treat insomnia and anxiety.				
信号通路	-				
靶点	GABA Receptor	mTOR	PI3K	Akt	-
IC_{50}	41 μM	-	-	-	-
体外研究	Jujuboside A at the low dose of 41 μM (about 0.05 g/L) induces significant increase of GABA(A) receptor α1, α5, β2 subunit mRNAs in both 24 and 72h treatments. Jujuboside A at the high dose of 82 μM (about 0.1 g/L) significantly increases GABA(A) receptor α1, α5 subunit mRNA levels and decreases β2 subunit mRNA level at 24h treatment, and decreases GABA(A) receptor subunit α1, β2 mRNAs expression at 72h treatment. Jujuboside A pretreatment could reverse the reduction of cell viability and better the injury of H9C2 cells induced by ISO. Jujuboside A could accelerate the phosphorylation of PI3K, Akt, and mTOR. Jujuboside A could significantly decrease the ratio of microtubule-associated protein LC3-II/I in H9C2 cells.				
体内研究	During daytime (9:00-15:00), jujubosides significantly increases the total sleep and rapid eye movement (REM) sleep without significant influence on non-REM (NREM) sleep. During nighttime (21:00-3:00), jujubosides significantly increases the total sleep and NREM sleep especially the light sleep while shows no significant effect on REM sleep and slow wave sleep (SWS). Intracerebroventricular treatment with Jujuboside A significantly mitigates learning and memory impairment in mice induced by Aβ1–42 as measured by the Y-maze, active avoidance and Morris water maze. Intracerebroventricular treatment with Jujuboside A reduces the level of Aβ1–42 in hippocampus, significantly inhibits the activities of acetylcholinesterase (AChE) and NO, and decreases the amount of the increased malondialdehyde (MDA) in the hippocampus and cerebral				

	cortex of mice treated with intracerebroventricular injection of Aβ1–42.
临床实验	N/A

参考文献：

1. You ZL, et al. J Ethnopharmacol. 2010,128(2):419-23.
2. Han D, et al. Evid Based Complement Alternat Med. 2016:9593716.
3. Cao JX, et al. J Ethnopharmacol. 2010,130(1):163-6.
4. Liu Z, et al. Eur J Pharmacol. 2014,738:206-13.

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成高浓度的储备液(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

Version 2021.05.13