碧云天网站 微信公众号

碧云天生物技术/Beyotime Biotechnology
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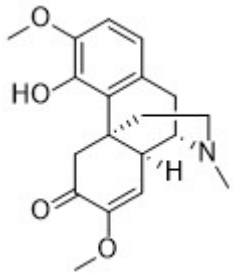
青藤碱(98%, HPLC)

产品编号	产品名称	包装
SM4060-10mM	青藤碱(98%, HPLC)	10mM×0.2ml
SM4060-25mg	青藤碱(98%, HPLC)	25mg
SM4060-100mg	青藤碱(98%, HPLC)	100mg

产品简介:

- **化学信息:**

中文名	青藤碱
英文名	Sinomenine
中文别名	汉防己碱
英文别名	Cucoline; Kukoline
来源	青藤*Sinomenium acuturn* (Thunb.) Rehd. et Wils.
化合物类型	生物碱(Alkaloids)>吗啡烷型生物碱
化学式	$C_{19}H_{23}NO_4$
分子量	329.39
CAS号	115-53-7
纯度	98%, HPLC
溶剂/溶解度	DMSO: 65 mg/ml (197.33 mM) Water: 10 mg/ml (30.36 mM)
溶液配制	5mg加入1.52ml DMSO，或者每3.29mg加入1ml DMSO，配制成10mM溶液。



- **生物信息**

产品描述	Sinomenine, an alkaloid extracted from Sinomenium acutum, is a blocker of the NF-κB activation. Sinomenine also is an activator of μ-opioid receptor.				
信号通路	-				
靶点	NF-κB	μ-Opioid Receptor	-	-	-
IC_{50}	-	-	-	-	-
体外研究	Cell viability gradually decreased with increasing Sinomenine concentration. The migration ability of MDA-MB-231 cells is significantly weakened by 0.25, 0.5, and 1 mM of Sinomenine treatment. The wound-healing assay reveals that 0.25 and 0.5 mM Sinomenine significantly suppress the healing of the wound. When the MDA-MB-231 cells are treated with 0.5 mM Sinomenine, the healing progress is about 50%, but in the group treated with 0.25 mM Sinomenine and the untreated control, the healing is about 80% and nearly 95%, respectively. The IB assay following inhibitor of NF-κB (IκB) antibody IP shows that the binding of NF-κB to IκB is inhibited by Sinomenine treatment in a dose-dependent manne.				
体内研究	Sinomenine (i.p.) produces antinociception in the hot plate and tail flick tests in male rats at 40 mg/kg, but not at lower doses (10 or 20 mg/kg). At 10 to 40 mg/kg Sinomenine does not produce any observable side effect such as sedation, allergy or motor impairments. At 80 mg/kg, Sinomenine is mildly sedative in rats. Antinociception is also seen mice at 60 min following 80 mg/kg i.p. Sinomenine, but not at lower doses (20 or 40 mg/kg), in the tail flick test. Sinomenine at 80 mg/kg i.p. does not produce any observable side effects in mice. I.p or p.o. Sinomenine at 40 or 80 mg/kg dose-dependently reduces mechanical hypersensitivity in nerve injured mice. I.p. Sinomenine at 40 mg/kg, but not lower doses or vehicle, significantly decreases mechanical and cold allodynia for up to 240 min without producing motor deficits or sedation. At doses of 10 to 40 mg/kg, Sinomenine dose-dependently increases the paw withdrawal threshold. In non-chronic constriction injury (CCI) healthy rats, Sinomenine at the dose range of 10 to 40 mg/kg does not				

	change the immobility behavior in the forced swimming test.
临床实验	N/A

参考文献：

1. Song L, et al. Biochem Biophys Res Commun. 2015,464(3):705-10.
2. Wang MH, et al. Neurosci Lett. 2008,443(3):209-12.
3. Gao T, et al. Eur J Pharmacol. 2013,721(1-3):5-11.
4. Zhu Q, et al. Sci Rep. 2014,4:7270.

包装清单：

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SM4060-100mg	青藤碱(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，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

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