

产品名称: **Vilazodone**

产品别名: 维拉佐酮

生物活性:

Description

Vilazodone (EMD 68843; SB 659746A) is a combined serotonin specific reuptake inhibitor (SSRI) and 5-HT1A receptor partial agonist currently under clinical evaluation for the treatment of major depression. IC50 value: Target: SSRI; 5-HT1A Vilazodone represents another option for the treatment of MDD. Vilazodone appears to have a favourable weight-gain profile based on short-term studies. Sexual side-effects were not consistently demonstrated when assessed using clinical rating scales but spontaneously reported AEs related to sexual functioning were observed. Additional controlled data regarding long-term efficacy and effectiveness will help characterise this new agent when used in maintenance treatment.

In Vitro:

DMSO : ≥ 100 mg/mL (226.49 mM)

H₂O : < 0.1 mg/mL (insoluble)

* " \geq " means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing	1 mM		2.2649 mL	11.3245 mL	22.6490 mL
Stock Solutions	5 mM		0.4530 mL	2.2649 mL	4.5298 mL
	10 mM		0.2265 mL	1.1325 mL	2.2649 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

In Vivo:

请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 **In Vitro** 方式配制澄清的储备液，再依次添加助溶剂：

——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用；以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶

1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline

Solubility: ≥ 2.5 mg/mL (5.66 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (5.66 mM, 饱和度未知) 的澄清溶液。

以 1 mL 工作液为例，取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μ L PEG300 中，混合均匀向上述体系中加入 50 μ L Tween-80，混合均匀；然后继续加入 450 μ L 生理盐水定容至 1 mL。

2.请依序添加每种溶剂： 10% DMSO →90% corn oil

Solubility: ≥ 2.5 mg/mL (5.66 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (5.66 mM, 饱和度未知) 的澄清溶液，此方案不适用于实验周期在半个月以上的实验。

以 1 mL 工作液为例，取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 玉米油中，混合均匀。

[1]. Cruz MP. Vilazodone HCl (Vibryd): A Serotonin Partial Agonist and Reuptake Inhibitor For the

References

Treatment of Major Depressive Disorder. P T. 2012 Jan;37(1):28-31.

[2]. Citrome L. Vilazodone for major depressive disorder: a systematic review of the efficacy and safety profile for this newly approved antidepressant - what is the number needed to treat, number needed to harm and likelihood to be helped or harmed? Int J C

[3]. Reed CR, Kajdasz DK, Whalen H, Athanasiou MC, Gallipoli S, Thase ME. The efficacy profile of vilazodone, a novel antidepressant for the treatment of major depressive disorder. Curr Med Res Opin. 2012 Jan;28(1):27-39.

[4]. Lee A. Dawson et al. Vilazodone: A 5-HT1A Receptor Agonist/Serotonin Transporter Inhibitor for the Treatment of Affective Disorders CNS Neuroscience & Therapeutics Volume 15, Issue 2, pages 107-117, June 2009

[5]. Thomas L. Schwartz Vilazodone: a brief pharmacological and clinical review of the novel serotonin partial agonist and reuptake inhibitor Therapeutic Advances in Psychopharmacology June 2011 vol. 1 no. 3 81-87



源叶生物