

产品名称：**SB742457**  
产品别名：**Intepirdine**

生物活性:

Description	Intepirdine (SB742457) is a highly selective 5-HT6 receptor antagonist with pKi of 9.63; exhibits >100-fold selectivity over other receptors.				
IC <sub>50</sub> & Target	pKi: 9.63 (5-HT6 Receptor)[1].				
In Vitro	Intepirdine (SB742457), a 5-HT6 receptor antagonist, which extends into Alzheimer disease (AD) sufferers further highlights the therapeutic promise of this mechanistic approach. Alzheimer's disease is a devastating neurological condition characterized by a progressive decline in cognitive performance accompanied by behavioral and psychological syndromes, such as depression and psychosis. With the subsequent development of selective 5-HT6 receptor antagonists, preclinical studies in rodents and primates have elucidated the function of this receptor subtype in more detail. It is increasingly clear that blockade of 5-HT6 receptors leads to an improvement of cognitive performance in a wide variety of learning and memory paradigms and also results in anxiolytic and antidepressant-like activity. Intepirdine (SB742457) is generally safe and well tolerated and may be efficacious in Alzheimer disease.				
Solvent&Solubility	<b>In Vitro:</b> DMSO : 50 mg/mL (141.47 mM; Need ultrasonic)				
		<div><div>Solvent</div><div>Mass</div><div>Concentration</div></div>	1 mg	5 mg	10 mg
	Preparing	1 mM	2.8293 mL	14.1467 mL	28.2933 mL
	Stock Solutions	5 mM	0.5659 mL	2.8293 mL	5.6587 mL
		10 mM	0.2829 mL	1.4147 mL	2.8293 mL
	<p>*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。</p> <p>储备液的保存方式和期限 -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时，请在 6 个月内使用， -20℃ 储存时，请在 1 个月内使用。</p> <p><b>In Vivo:</b></p> <p>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 <b>In Vitro</b> 方式配制澄清的储备液，再依次添加助溶剂：</p> <p>——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</p> <div><p>1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline</p><p>Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution</p><p>此方案可获得 ≥ 2.5 mg/mL (7.07 mM, 饱和度未知) 的澄清溶液。</p><p>以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀；向上述体系中加入 50 μL Tween-80，混合均匀；然后继续加入 450 μL 生理盐水定容至 1 mL。</p></div> <div><p>2.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline)</p><p>Solubility: ≥ 2.5 mg/mL (7.07 mM); Clear solution</p><p>此方案可获得 ≥ 2.5 mg/mL (7.07 mM, 饱和度未知) 的澄清溶液。</p><p>以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理</p></div>				

	<p>盐水水溶液中，混合均匀。</p>
<b>References</b>	<p>[1]. <a href="#">Callaghan CK, Hok V, Della-Chiesa A, et al. Age-related declines in delayed non-match-to-sample performance (DNMS) are reversed by the novel 5HT6 receptor antagonist SB742457. Neuropharmacology. 2012 Oct;63(5):890-7.</a></p> <p>[2]. <a href="#">Codony X, Vela JM, Ramírez MJ. 5-HT(6) receptor and cognition. Curr Opin Pharmacol. 2011 Feb;11(1):94-100.</a></p> <p>[3]. <a href="#">Maher-Edwards G, Dixon R, Hunter J, et al. SB-742457 and donepezil in Alzheimer disease: a randomized, placebo-controlled study. Int J Geriatr Psychiatry. 2011 May;26(5):536-44.</a></p> <p>[4]. <a href="#">Maher-Edwards G, Zvartau-Hind M, Hunter AJ, et al. Double-blind, controlled phase II study of a 5-HT6 receptor antagonist, SB-742457, in Alzheimer's disease. Curr Alzheimer Res. 2010 Aug;7(5):374-85.</a></p> <p>[5]. <a href="#">Upton N, Chuang TT, Hunter AJ, Virley DJ. 5-HT6 receptor antagonists as novel cognitive enhancing agents for Alzheimer's disease. Neurotherapeutics. 2008 Jul;5(3):458-69.</a></p> <p>[6]. <a href="#">SB-742457</a></p>



源叶生物