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产品名称: **BD-1047 (dihydrobromide)**

产品别名: **BD-1047 dihydrobromide**

生物活性:

Description	BD-1047 (dihydrobromide) is a selective functional antagonist of sigma-1 receptor, shows antipsychotic activity in animal models predictive of efficacy in schizophrenia[1].					
IC ₅₀ & Target	sigma-1 receptor ^[1]					
In Vitro	BD-1047 (dihydrobromide) prevents that Cutamesine reduces the cell death rate induced by light exposure in murine photoreceptor-derived 661w cells[2]. BD-1047 (dihydrobromide) attenuates that Cutamesine reduces the mitochondrial damage and the elevated level of caspase 3/7 activity[2].					
In Vivo	BD-1047 (dihydrobromide) (1-10 mg/kg; i.p.) decreases the Apomorphine (APO)-induced climbing behavior at the dose of 10 mg/kg in mice[1]. BD-1047 (dihydrobromide) counteracts the antidepressant-like effect induced by co-administration of pramipexole and sertraline (but not pramipexole and fluoxetine)[3]. BD-1047 (dihydrobromide) reduces the increasing expression of pNR1, and reverses the Sig-1 R agonists potentiated NMDA-induced pain behaviour and pNR1 immunoreactivity[4].					
	Animal Model:	Male Albino Swiss mice (50 days old, 25–28 g)[1]				
	Dosage:	1 mg/kg, 3 mg/kg, 10 mg/kg				
	Administration:	Intraperitoneal injection				
	Result:	Decreased the APO-induced climbing at the dose of 10 mg/kg in mice.				
Solvent&Solubility	In Vitro: DMSO : 25 mg/mL (57.20 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.2881 mL	11.4406 mL	22.8812 mL
		5 mM		0.4576 mL	2.2881 mL	4.5762 mL
		10 mM		0.2288 mL	1.1441 mL	2.2881 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℃, 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。 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 (5.72 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.72 mM, 饱和度未知) 的澄清溶液。					



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	<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> <p>2. 请依序添加每种溶剂: 10% DMSO \rightarrow 90% (20% SBE-β-CD in saline)</p> <p>Solubility: \geq 2.5 mg/mL (5.72 mM); Clear solution</p> <p>此方案可获得 \geq 2.5 mg/mL (5.72 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 生理盐水水溶液中, 混合均匀。</p>
References	<p>[1]. Skuza G, et al. Effect of BD 1047, a sigma1 receptor antagonist, in the animal models predictive of antipsychotic activity. Pharmacol Rep. 2006 Sep-Oct;58(5):626-635.</p> <p>[2]. Shimazawa M, et al. Effect of a sigma-1 receptor agonist, cutamesine dihydrochloride (SA4503), on photoreceptor cell death against light-induced damage. Exp Eye Res. 2015 Mar;132:64-72.</p> <p>[3]. Rogóz Z, et al. Mechanism of synergistic action following co-treatment with pramipexole and fluoxetine or sertraline in the forced swimming test in rats. Pharmacol Rep. 2006 Jul-Aug;58(4):493-500.</p>

源叶生物