



上海源叶生物科技有限公司
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产品名称: 4-PPBP maleate

CAS 号: 201216-39-9

产品货号: T81982

生物活性:

Description	4-PPBP maleate is a potent σ 1 receptor ligand and agonist. 4-PPBP maleate is a non-competitive, selective NR1a/2B NMDA receptors (expressed in <i>Xenopus</i> oocytes) antagonist. 4-PPBP maleate provides neuroprotection[1][2][3].				
In Vitro	4-PPBP maleate elicits ERK1/2 phosphorylation in primary neurons[3].				
In Vivo	4-PPBP maleate (1 μ mol/kg; i.v.) decreases brain injury after transient focal ischemia in rats[2]. Animal Model: Male rats weighing 300 to 385 g (Transient focal ischemia model)[2] Dosage: 1 μ mol/kg Administration: Per hour by continuous intravenous infusion starting 1 hour after the initiation of ischemia and continuing through 22 hours of reperfusion. Result: Decreased brain injury after transient focal ischemia in rats.				
Solvent&Solubility	细胞实验: DMSO 中的溶解度 : 250 mg/mL (610.47 mM; 超声助溶; 吸湿的 DMSO 对产品的溶解度有显著影响, 请使用新开封的 DMSO)				
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
		1 mM	2.4419 mL	12.2094 mL	24.4188 mL
		5 mM	0.4884 mL	2.4419 mL	4.8838 mL
		10 mM	0.2442 mL	1.2209 mL	2.4419 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 (sealed storage, away from moisture)。-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。				
参考文献	[1]. Whitemore ER, et al. Antagonism of N-methyl-D-aspartate receptors by sigma site ligands: potency, subtype-selectivity and mechanisms of inhibition. <i>J Pharmacol Exp Ther.</i> 1997;282(1):326-338. [2]. Takahashi H, et al. PPBP [4-phenyl-1-(4-phenylbutyl) piperidine] decreases brain injury after transient focal ischemia in rats. <i>Stroke.</i> 1996;27(11):2120-2123. [3]. Tan F, et al. The σ 1 receptor agonist 4-PPBP elicits ERK1/2 phosphorylation in primary neurons: a possible mechanism of neuroprotective action. <i>Neuropharmacology.</i> 2010;59(6):416-424.				

完整储备液配制表:

* 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 (sealed storage, away from moisture)。-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。

可选溶剂	质量 / 溶剂体积 / 浓度	1 mg	5 mg	10 mg	25 mg
DMSO	1 mM	2.4419 mL	12.2094 mL	24.4188 mL	61.0471 mL
	5 mM	0.4884 mL	2.4419 mL	4.8838 mL	12.2094 mL



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	10 mM	0.2442 mL	1.2209 mL	2.4419 mL	6.1047 mL
	15 mM	0.1628 mL	0.8140 mL	1.6279 mL	4.0698 mL
	20 mM	0.1221 mL	0.6105 mL	1.2209 mL	3.0524 mL
	25 mM	0.0977 mL	0.4884 mL	0.9768 mL	2.4419 mL
	30 mM	0.0814 mL	0.4070 mL	0.8140 mL	2.0349 mL
	40 mM	0.0610 mL	0.3052 mL	0.6105 mL	1.5262 mL
	50 mM	0.0488 mL	0.2442 mL	0.4884 mL	1.2209 mL
	60 mM	0.0407 mL	0.2035 mL	0.4070 mL	1.0175 mL
	80 mM	0.0305 mL	0.1526 mL	0.3052 mL	0.7631 mL
	100 mM	0.0244 mL	0.1221 mL	0.2442 mL	0.6105 mL



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