



上海源叶生物科技有限公司
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产品名称: **GR-46611**
CAS 号: **185259-85-2**
产品货号: **T66082**

生物活性:

Description	GR-46611 is a 5-HT1D receptor agonist. GR-46611 can be used in the research of bladder hyperactivity, leukemia[1][3].				
IC50 & Target	5-HT1D Receptor				
In Vitro	GR-46611 (1 μM, 48 h) induces CEM cell proliferation[2]. Cell Line: CEM cells (human T lymphoblastic leukemia cell line) Concentration: 1 μM Incubation Time: 48 h Result: Induced a significant increase in cell proliferation by 37.0%.				
In Vivo	GR-46611 (1 mg/kg, i.p.) significantly improves survival of Dravet syndrome (DS) mice[1]. GR-46611 (0.03-300 μg/kg, i.v.) increases threshold volume, bladder capacity, and residual volume in chronic spinal cord injury (SCI) cats[3]. GR46611 (3-30 mg/kg, s.c.) causes a dose-related decrease in rectal temperature in the adult guinea-pig[4]. Animal Model: Dravet syndrome (DS) mice[1] Dosage: 0.01, 0.1 and 1 mg/kg Administration: Intraperitoneal injection (i.p.) Result: Improved survival relative to vehicle treated controls with 89% surviving rate.				
Solvent&Solubility	细胞实验: DMSO 中的溶解度 : 100 mg/mL (264.91 mM; 超声助溶 (<60°C); 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	2.6491 mL	13.2457 mL	26.4915 mL
		5 mM	0.5298 mL	2.6491 mL	5.2983 mL
	10 mM	0.2649 mL	1.3246 mL	2.6491 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 (protect from light)。-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]. Paul G Hatini, et al. A 5-HT 1D -receptor agonist protects Dravet syndrome mice from seizure and early death. Eur J Neurosci. 2020 Nov;52(10):4370-4374. [2]. C Sibella-Argüelle, et al. The proliferation of human T lymphoblastic cells induced by 5-HT1B receptors activation is regulated by 5-HT-moduline. C R Acad Sci III. 2001 Apr;324(4):365-72. [3]. Baojun Gu, et al. Inhibition of bladder activity by 5-hydroxytryptamine1 serotonin receptor agonists in cats with chronic spinal cord injury. J Pharmacol Exp Ther. 2004 Sep;310(3):1266-72. [4]. M Skingle, et al. Stimulation of central 5-HT1D receptors causes hypothermia in the guinea-pig. J Psychopharmacol. 1994 Jan;8(1):14-21.				
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 (protect from light)。-80°C 储存时, 请在 6 个月内使用, -20°C					



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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
	浓度				
DMSO	1 mM	2.6491 mL	13.2457 mL	26.4915 mL	66.2287 mL
	5 mM	0.5298 mL	2.6491 mL	5.2983 mL	13.2457 mL
	10 mM	0.2649 mL	1.3246 mL	2.6491 mL	6.6229 mL
	15 mM	0.1766 mL	0.8830 mL	1.7661 mL	4.4152 mL
	20 mM	0.1325 mL	0.6623 mL	1.3246 mL	3.3114 mL
	25 mM	0.1060 mL	0.5298 mL	1.0597 mL	2.6491 mL
	30 mM	0.0883 mL	0.4415 mL	0.8830 mL	2.2076 mL
	40 mM	0.0662 mL	0.3311 mL	0.6623 mL	1.6557 mL
	50 mM	0.0530 mL	0.2649 mL	0.5298 mL	1.3246 mL
	60 mM	0.0442 mL	0.2208 mL	0.4415 mL	1.1038 mL
	80 mM	0.0331 mL	0.1656 mL	0.3311 mL	0.8279 mL
	100 mM	0.0265 mL	0.1325 mL	0.2649 mL	0.6623 mL

源叶