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产品名称: **EPTAPIRONE**
产品别名: **F 11440**

生物活性:				
Description	Eptapirone (F11440) is a potent, selective, high efficacy 5-HT1A receptor agonist with marked anxiolytic and antidepressant potential.			
In Vitro	The affinity of Eptapirone (F11440) for 5-HT1A binding sites (pKi, 8.33) was higher than that of buspirone (pKi, 7.50), and somewhat lower than that of flesinoxan (pKi, 8.91). In vivo, Eptapirone (F11440) was 4- to 20-fold more potent than flesinoxan, and 30- to 60-fold more potent than buspirone, in exerting 5-HT1A agonist activity at pre- and postsynaptic receptors in rats (measured by, for example, its ability to decrease hippocampal extracellular serotonin (5-HT) levels and to increase plasma corticosterone levels, respectively). Eptapirone (F11440), shown here to be a potent, selective, high efficacy 5-HT1A receptor agonist, appears to have the potential to exert marked anxiolytic and antidepressant activity in humans.[1]			
Solvent&Solubility	In Vitro: DMSO : 50 mg/mL (144.76 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg
		1 mM	2.8952 mL	14.4760 mL
		5 mM	0.5790 mL	2.8952 mL
		10 mM	0.2895 mL	1.4476 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 (7.24 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (7.24 mM, 饱和度未知) 的澄清溶液。 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。 2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.24 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (7.24 mM, 饱和度未知) 的澄清溶液。 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 生理盐水溶液中, 混合均匀。			



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	3.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (7.24 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (7.24 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 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。
References	[1]. Koek W, et al. F 11440, a potent, selective, high efficacy 5-HT _{1A} receptor agonist with marked anxiolytic and antidepressant potential. J Pharmacol Exp Ther. 1998 Oct;287(1):266-83.
实验参考:	
Cell Assay	Eptapirone (F11440) is dissolved in DMSO. The HeLa cell line permanently transfected with the human 5-HT _{1A} receptor gene and permanently expressing the 5-HT _{1A} receptor protein (HA7). In subsequent experiments, the maximum effect of Eptapirone (F11440) is compared with those of other compounds by repeated testing (n=9) at a concentration of 10^{-5} M (i.e., a concentration at which the reference compounds used here appeared to attain their maximal effects) in a first series of experiments and at 10^{-4} M in a second series. Data from each series were analyzed statistically by means of a one-way analysis of variance followed by sequential paired comparisons by means of Newman-Keuls tests ^[1] .
Animal Administration	Rats ^[1] For in vivo studies, F 11440 was suspended in distilled water by adding Tween 80 (2 drops/10 ml). When injected i.v., F 11440 was dissolved in a mixture of 60% PEG and 40% physiological saline. Doses are expressed as the weight of the free base. Twenty-four hours before use in the experiments, rats were housed individually in a restricted area (accessible only to the experimenter) and received 15 g standard laboratory food (water continued to be available freely). Experiments, consisting of drug treatments after which animals were decapitated and trunk blood was collected, were conducted between 8:00 a.m. and 10:30 a.m. F 11440 (or vehicle) was administered 60 min before decapitation when given p.o., and 30 min before decapitation when given i.p. ^[1] .
References	[1]. Koek W, et al. F 11440, a potent, selective, high efficacy 5-HT _{1A} receptor agonist with marked anxiolytic and antidepressant potential. J Pharmacol Exp Ther. 1998 Oct;287(1):266-83.