



上海源叶生物科技有限公司
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产品名称: PHTPP
产品别名: PHTPP

生物活性:				
Description	PHTPP is a selective ER β antagonist.			
IC ₅₀ & Target	ER β [1]			
In Vitro	PHTPP is a selective ER β antagonist. PHTPP reduces FSH-mediated cAMP production by 80% (p<0.01) while it has no effect on basal cAMP[1]. PHTPP (10 ⁻⁶ M) inhibits E2-stimulated ER β activity, but does not suppress E2-stimulated ER α activity. A high dose of PHTPP (10 ⁻⁶ M) slightly increases class 1 <i>Igf1</i> mRNA expression, and facilitates the DPN-induced increase in class 1 <i>Igf1</i> mRNA expression[2].			
Solvent&Solubility	In Vitro: DMSO : 25 mg/mL (59.06 mM; Need ultrasonic) H ₂ O : < 0.1 mg/mL (insoluble)			
	Preparing Stock Solutions	Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
		1 mM	2.3623 mL	11.8117 mL
		5 mM	0.4725 mL	2.3623 mL
		10 mM	0.2362 mL	1.1812 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 (5.91 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.91 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μ L PEG300 中, 混合均匀, 向上述体系中加入 50 μ L Tween-80, 混合均匀; 然后继续加入 450 μ L 生理盐水定容至 1 mL。 2.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (5.91 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (5.91 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 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 玉米油中, 混合均匀。			
	[1]. Compton DR, et al. Pyrazolo[1,5-a]pyrimidines: estrogen receptor ligands possessing estrogen			



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References	receptor beta antagonist activity. J Med Chem. 2004 Nov 18;47(24):5872-93. [2]. Ogo Y, et al. IGF-1 gene expression is differentially regulated by estrogen receptors α and β in mouse endometrial stromal cells and ovarian granulosa cells. J Reprod Dev. 2014;60(3):216-23. Epub 2014 Mar 25.
实验参考:	
Cell Assay	Cells are plated at a density of 3 to 4×10 ⁵ in 1 mL of medium per well in a 24-well plate for cell viability and cAMP analysis. Cells are cultured in Dulbecco's Modified Eagle Medium with PHTPP (1 μ M), or ethanol (0.1%) as the vehicle. The incubator is set to an atmosphere of 5% CO ₂ in air at 37°C, and cultures are allowed to acclimate for at least 24 h. The culture medium is then aspirated and replaced with serum-free DMEM/F12 containing 0.1 μ M androstenedione. The cells are collected for intracellular cAMP and to test cell viability[1].
References	[1]. Compton DR, et al. Pyrazolo[1,5-a]pyrimidines: estrogen receptor ligands possessing estrogen receptor beta antagonist activity. J Med Chem. 2004 Nov 18;47(24):5872-93. [2]. Ogo Y, et al. IGF-1 gene expression is differentially regulated by estrogen receptors α and β in mouse endometrial stromal cells and ovarian granulosa cells. J Reprod Dev. 2014;60(3):216-23. Epub 2014 Mar 25.

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