

产品名称: **Alarelin (Acetate)**  
 产品别名: 醋酸阿拉瑞林; **Alarelin; Alarelin Acetate**

生物活性:

Description	Alarelin acetate is a synthetic GnRH agonist.				
In Vitro	The cell viability in the presence of alarelin was significantly lower than that in the absence of alarelin. The maximum stimulatory effect on cell viability was achieved at a concentration of 10 <sup>-5</sup> M and it acted in a dose-dependent manner[1]				
In Vivo	Alarelin could inhibit the gastric acid secretion both by direct actions on parietal cells in rats and by inhibiting vagous function[2]. Alarelin could significantly enhance ratio of G1 phase and decrease ratio of S phase of GSMC of rats[1].				
Solvent&Solubility	<b><i>In Vitro:</i></b> <b>DMSO : ≥ 58 mg/mL (45.05 mM)</b>  * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	<div><div>Solvent</div><div>Mass</div><div>Concentration</div></div>	1 mg	5 mg	10 mg
		1 mM	0.7767 mL	3.8837 mL	7.7675 mL
		5 mM	0.1553 mL	0.7767 mL	1.5535 mL
		10 mM	0.0777 mL	0.3884 mL	0.7767 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。					
References	<p>[1]. <a href="#">Chen L, et al. Expression of gonadotropin-releasing hormone receptor and effect of gonadotropin-releasing hormone analogue on proliferation of cultured gastric smooth muscle cells of rats. World J Gastroenterol. 2004 Jun 15;10(12):1780-4.</a></p> <p>[2]. <a href="#">Chen L, et al. Distribution, cloning and sequencing of GnRH, its receptor, and effects of gastric acid secretion of GnRH analogue in gastric parietal cells of rats. Life Sci. 2005 Feb 4;76(12):1351-65.</a></p>				
实验参考:					
Cell Assay	The cells are trypsinized in a solution of 2.5 g/L trypsin and seeded in a 96-well plate. After the cells are grown for 24 h to approximately 800 g/L subconfluent state, 0.1 mL medium containing 2.5% calf serum and various concentrations (0.001, 0.1, 10 μM) of alarelin is added to each well, respectively, and incubated for 24 h in a CO2 incubator. Each concentration is tested in at least 12 wells. Briefly, 15 μL of MTT solution is added to each well and incubated for 4 h. Then, the medium and MTT are removed and 150 μL of DMSO is added to each well and shaken for 10 min to dissolve the crystal. The OD is determined at 490 nm using an ELISA reader[1].				
Animal Administration	Rats: Male Sprague-Dawley rats are divided into two groups. In Group I: Gastric acid secretion is measured in a chambered stomach. Briefly, the abdomen is incised, and both the stomach and duodemun are exposed and tied respectively; then 1.5 mL 0.9% sodium chloride (containing Alarelin, 2 μg/kg) is infused into the each chambered stomach. After 15, 30, 45, 60 min, the gastric juice is drew out of the chambered stomach and the pH is measured in the ABL-500 respectively.  The control is infused saline instead of Alarelin. In Group II: After anaesthetized, 2 mL Alarelin (2				

	<p>µg/kg) is administered into the tail vein. The control is injected the saline instead of Alarelin. Then, the stomach and duodenum are tied and infused 1.5 mL saline immediately. After 15, 30, 45, 60 min, the gastric juice is also drew out of the chambered stomach and the pH is measured in the ABL-500 respectively[2].</p>
<b>References</b>	<p>[1]. <u>Chen L, et al. Expression of gonadotropin-releasing hormone receptor and effect of gonadotropin-releasing hormone analogue on proliferation of cultured gastric smooth muscle cells of rats. World J Gastroenterol. 2004 Jun 15;10(12):1780-4.</u></p> <p>[2]. <u>Chen L, et al. Distribution, cloning and sequencing of GnRH, its receptor, and effects of gastric acid secretion of GnRH analogue in gastric parietal cells of rats. Life Sci. 2005 Feb 4;76(12):1351-65.</u></p>



源叶生物