



上海源叶生物科技有限公司
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产品名称: **GAP 27**

产品别名: **Gap 27**

生物活性:

Description	Gap 27, connexin43 mimetic peptide, is a gap junction inhibitor.				
In Vitro	Gap 27 causes a remarked decrease in the number of both TRAP-positive mononuclear and multinucleated rat osteoclasts cultured on bovine bone slices. The activity of the remaining osteoclasts is found to be diminished by measuring the percentage of osteoclasts with actin rings of all TRAP-positive cells. In addition, the resorbed area in the treated cultures is greatly diminished[1]. Incubation of the carotid artery with the gap junction inhibitor Gap 27 (500 μM) essentially abolishes the hyperpolarization to acetylcholine but it is without effect on that to levromakalim. In the guinea-pig isolated internal carotid artery, Gap 27 inhibits acetylcholine-induced, endothelium-dependent hyperpolarizations[2].				
In Vivo	Gap 27 (300 μM) inhibits relaxation by 40% in thoracic aorta and the superior mesenteric artery. Gap 27 also attenuates the endothelium-dependent component of the relaxation induced by ATP in thoracic aorta. [3].				
Solvent&Solubility	In Vitro: H ₂ O : 33.33 mg/mL (25.55 mM; Need ultrasonic)				
		<div>SolventMassConcentration</div>	1 mg	5 mg	10 mg
	Preparing	1 mM	0.7666 mL	3.8328 mL	7.6656 mL
	Stock Solutions	5 mM	0.1533 mL	0.7666 mL	1.5331 mL
		10 mM	0.0767 mL	0.3833 mL	0.7666 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。					
References	[1]. Ilvesaro J, et al. Connexin-mimetic peptide Gap 27 decreases osteoclastic activity. BMC Musculoskelet Disord. 2001;2:10. [2]. Edwards G, et al. Role of gap junctions in the responses to EDHF in rat and guinea-pig small arteries. Br J Pharmacol. 1999 Dec;128(8):1788-94. [3]. Chaytor AT, et al. Central role of heterocellular gap junctional communication in endothelium-dependent relaxations of rabbit arteries. J Physiol. 1998 Apr 15;508 (Pt 2):561-73.				
实验参考:					
Cell Assay	Bone cell cultures are cultured for 48 hours with three different treatments (control, heptanol and Gap 27). After the culture period, bone slices are fixed. The cells are stained for tartrate-resistant acid phosphatase (TRAP). To visualise the nuclei, the cells are incubated with the DNA-binding fluorochrome Hoechst 33258 (1 mg/mL stock diluted 1:800 in PBS) for 10 minutes at room temperature. The numbers of mononuclear and multinucleated TRAP-positive cells on each bone slice are counted[1].				
	[1]. Ilvesaro J, et al. Connexin-mimetic peptide Gap 27 decreases osteoclastic activity. BMC Musculoskelet Disord. 2001;2:10.				



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