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产品名称:

**ALA-CYS-ASP-THR-ALA-THR-CYS-VAL-THR-HIS-ARG-LEU-ALA-GLY-LEU-LEU-SER-ARG-SER-GLY-GLY-VAL-VAL-LYS-ASN-ASN-PHE-VAL-PRO-THR-ASN-VAL-**

产品别名: **Rat CGRP-(8-37)**

生物活性:					
Description	Rat CGRP-(8-37) (VTHRLAGLLSRSGGVVKDNFVPTNVGSEAF) is a highly selective CGRP receptor antagonist.				
IC <sub>50</sub> & Target	CGRP receptor <sup>[1]</sup>				
In Vitro	CGRP-(8-37) is a truncated version of calcitonin gene-related peptide (CGRP) that binds to the CGRP receptor with similar affinity but does not activate the receptor <sup>[1]</sup> .				
In Vivo	CGRP-(8-37) is effective in alleviating mechanical and thermal allodynia in a dose-dependent manner. The 50 nM dose is most efficacious for both forelimb and hindlimb responses. The period of efficacy is 10 min to onset for a duration of 20 min. Post-drug washout responses are not statistically significant compared to pre-drug responses[1]. Intrathecal administration of 5 nmol or 10 nmol of CGRP-(8-37), but not 1 nmol, induces a significant increase in hindpaw withdrawal latency. Intrathecal administration of CGRP-(8-37) not only reverses the SP-induced decrease in latency to both withdrawal responses but also mediates a significant increase in response latency compared to basal levels[2].				
Solvent&Solubility	<b>In Vitro:</b> H <sub>2</sub> O : 50 mg/mL (15.99 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div>Solvent / Mass / Concentration</div>	1 mg	5 mg	10 mg
		1 mM	0.3197 mL	1.5987 mL	3.1974 mL
		5 mM	0.0639 mL	0.3197 mL	0.6395 mL
		10 mM	0.0320 mL	0.1599 mL	0.3197 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	[1]. Bennett AD, et al. Alleviation of mechanical and thermal allodynia by CGRP(8-37) in a rodent model of chroniccentral pain. Pain. 2000 May;86(1-2):163-75. [2]. Yu LC, et al. The calcitonin gene-related peptide antagonist CGRP8-37 increases the latency to withdrawalresponses in rats. Brain Res. 1994 Aug 8;653(1-2):223-30.				
实验参考:					
Animal Administration	Rats: Adult male Sprague Dawley rats are given a spinal hemisection or a sham surgery at the T13 spinal segment. An externally accessible PE-10 intrathecal catheter that terminated at T13 is used for drug delivery. Animals are allowed to recover for 4 weeks at which time the hemisected animals displayed mechanical and thermal allodynia bilaterally, in both forelimbs and hindlimbs. CGRP-(8-37) is delivered just prior to a testing session in 1, 5, 10, or 50 nM doses in artificial				



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	cerebral spinal fluid in 10 mL volumes[1].
References	<p>[1]. Bennett AD, et al. Alleviation of mechanical and thermal allodynia by CGRP(8-37) in a rodent model of chroniccentral pain. Pain. 2000 May;86(1-2):163-75.</p> <p>[2]. Yu LC, et al. The calcitonin gene-related peptide antagonist CGRP8-37 increases the latency to withdrawalresponses in rats. Brain Res. 1994 Aug 8;653(1-2):223-30.</p>



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