

产品名称: **COMPSTATIN**
 产品别名: 坎普他汀 ; **Compstatin**

生物活性:

Description	Compstatin is a 13-residue cyclic peptide and a potent inhibitor of the complement system, and has species specificity.				
In Vitro	Compstatin binds to baboon C3 and is resistant to proteolytic cleavage in baboon blood (similar to humans); Compstatin inhibits only the activation of primates' complement system[1].				
In Vivo	Compstatin (21 mg/kg) produces complete inhibition when given as a combination of bolus injection and infusion. Compstatin completely inhibits in vivo heparin/protamine-induced complement activation without adverse effects on heart rate or systemic arterial, central venous, and pulmonary arterial pressures[1]. Pig xenografts survival is significantly longer in the Compstatin perfused group than in the control group. At rejection the biopsy samples obtained from kidneys perfused with Compstatin show less deposition of C3 and fibrin than do the control kidneys[2]				
Solvent&Solubility	<i>In Vitro:</i> DMSO : ≥ 300 mg/mL (193.45 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent / Mass Concentration	1 mg	5 mg	10 mg
		1 mM	0.6448 mL	3.2242 mL	6.4484 mL
		5 mM	0.1290 mL	0.6448 mL	1.2897 mL
	10 mM	0.0645 mL	0.3224 mL	0.6448 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]. Soulika AM, et al. Inhibition of heparin/protamine complex-induced complement activation by Compstatin in baboons. Clin Immunol. 2000 Sep;96(3):212-21.</p> <p>[2]. Fiane AE, et al. Compstatin, a peptide inhibitor of C3, prolongs survival of ex vivo perfused pig xenografts. Xenotransplantation. 1999 Feb;6(1):52-65.</p>				
实验参考:					
Animal Administration	Compstatin-perfused circuit: pig xenografts are perfused with human blood containing Compstatin (final conc. 0.088 mg/mL). Control group: pig kidneys perfused with human blood and control agent. The total fluid volume, protein concentration and amount of blood are equal in both the Compstatin and control perfusion circuits, and the perfusion is performed in both circuits simultaneously with pooled blood from the same two donors. [2]				
References	<p>[1]. Soulika AM, et al. Inhibition of heparin/protamine complex-induced complement activation by Compstatin in baboons. Clin Immunol. 2000 Sep;96(3):212-21.</p> <p>[2]. Fiane AE, et al. Compstatin, a peptide inhibitor of C3, prolongs survival of ex vivo perfused pig xenografts. Xenotransplantation. 1999 Feb;6(1):52-65.</p>				