



上海源叶生物科技有限公司
Shanghai yuanye Bio-Technology Co., Ltd
电话: 021-61312973 传真: 021-55068248
网址: www.shyuanye.com
邮箱: shyysw@sina.com

产品名称: 人胰高血糖素样肽-1
产品别名: GLP-1(7-37)

生物活性:

Description	GLP-1(7-37) is an intestinal insulinotropic hormone that augments glucose induced insulin secretion.				
In Vivo	GLP-1(7-37) (0.5, 5 or 50 pmol/min/kg) infused during the second hour of a 2-hour 11-mM hyperglycemic clamp produces a dose-related enhancement of the glucose-stimulated increase in plasma insulin concentration and an increased rate of glucose infusion in rats[2]. Infusion of GLP-1(7-37) (5 pmol/min/kg) from 1 hour through 7 hours produces a sustained increase in plasma insulin concentration relative to levels in rats infused with vehicle in rats with maintained glucose concentration at 11 mM[2].				
	Animal Model:	Male Sprague-Dawley rats weighing 300 to 350 g with maintained plasma glucose concentration at 11 mM[2].			
	Dosage:	0.5, 5 or 50 pmol/min/kg.			
	Administration:	IV during the second hour of a 2-hour 11-mmol/L hyperglycemic clamp.			
	Result:	Produced a dose-related enhancement of the glucose-stimulated increase in plasma insulin concentration and an increased rate of glucose infusion.			
	Animal Model:	Male Sprague-Dawley rats weighing 300 to 350 g with glucose IV at a variable rate for 7 hours to maintain plasma glucose concentration at 11 mM[2].			
	Dosage:	5 pmol/min/kg.			
	Administration:	IV from 1 hour through 7 hours[2].			
	Result:	Produced a sustained increase in plasma insulin concentration relative to levels in rats infused with vehicle.			
Solvent&Solubility	In Vitro: H₂O : 30 mg/mL (8.94 mM; Need ultrasonic and warming)				
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	0.2980 mL	1.4900 mL	2.9800 mL
		5 mM	0.0596 mL	0.2980 mL	0.5960 mL
		10 mM	---	---	---
	*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]. Sarrauste de Menthieri, C. et al. Structural requirements of the N-terminal region of GLP-1-[7-37]-NH2 for receptor interaction and cAMP production. European journal of medicinal chemistry 39, 473-480, doi:10.1016/j.ejmech.2004.02.002 (2004). [2]. Hargrove DM, et al. Glucose-dependent action of glucagon-like peptide-1 (7-37) in vivo during short- or long-term administration. Metabolism. 1995 Sep;44(9):1231-7.				