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产品名称: 人牛吡啶 **APELIN-13**

产品别名: **[Pyr1]-爱帕琳肽-13 ; [Pyr1]-Apelin-13; [pGlu1]-Apelin-13**

生物活性:					
Description	[Pyr1]-Apelin-13 is a highly potent, selective endogenous apelin receptor (APJ) agonist.				
In Vitro	[Pyr1]-apelin-13 encapsulation in lipoPEG particles (lipoPEG-PA13) results in sustained and extended drug release under physiological conditions[1].				
In Vivo	[Pyr1]-apelin-13 nanocarriers in a mouse model of pressure-overload induced heart failure demonstrate a sustainable long-term effect of [Pyr1]-apelin-13 in preventing cardiac dysfunction[1]. [Pyr1] apelin-13 (1, 5 µg) improves locomotor activity and reduces pain symptoms, cavity size and caspase-3 levels in rats. [Pyr1] apelin-13 (1, 5 µg) significantly increases thermal paw withdrawal latency. [Pyr1] apelin-13 in 5 µg dose also produces significant attenuation in paw withdrawal threshold compared to SCI animals from the second week post SCI[2].				
Solvent&Solubility	In Vitro: H₂O : ≥ 50 mg/mL (32.60 mM) * "≥" means soluble, but saturation unknown.				
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg
		Concentration			10 mg
		1 mM		0.6520 mL	3.2599 mL
		5 mM		0.1304 mL	0.6520 mL
		10 mM		0.0652 mL	0.3260 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]. Serpooshan V, et al. [Pyr1]-Apelin-13 delivery via nano-liposomal encapsulation attenuates pressure overload-induced cardiac dysfunction. Biomaterials. 2015 Jan;37:289-98. [2]. Hajimashhadi Z, et al. Chronic administration of [Pyr1] apelin-13 attenuates neuropathic pain after compression spinal cord injury in rats. Neuropeptides. 2017 Feb;61:15-22.				