Product Name	:	[Pyr1]-Apelin-13
Synonyms	:	[pGlu1]-Apelin-13
Cat No.	:	M22309
CAS Number	:	217082-60-5
Molecular Formula	:	C69H108N22O16S
Formula Weight	:	1533.8
Chemical Name	:	——
Description	:	[Pyr1]-Apelin-13 is a potent and selective endogenous Apelin receptor (APJ) agonist.[Pyr1]-apelin-13 encapsulation in lipoPEG particles (lipoPEG-PA13) results in sustained and extended drug release under physiological condi 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. [Pyr1] apelin-13 (1, 5 μg) improves locomotor activity anc 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 thresho animals from the second week post SCI.
Pathway	:	Others
Target	:	Other Targets
Receptor	:	endogenous apelin receptor
Solubility	:	H2O:50 mg/mL (32.60 mM)
SMILES	:	CSCCC(NC(=O)C1CCCN1C(=O)CNC(=O)C(CCCCN)NC(=O)C(CC1=CNC=N1)NC(=O)C(CO)NC(=O)C(CC(C)C)NC(=O)C(CCCNC(N)=N)NC(=O)C1CCCN1C(=O)C(CCCNC(N)=N)NC(=O)C1CCC(=O)N1)C(=O)N1CCCC1C(=O)NC(C
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	

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.

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