

Product Datasheet

[Pyr1]-Apelin-13 (orb1219858)

Catalog Number	orb1219858
Category	Small Molecules
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 conditions[1].[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. [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.
Target	endogenous apelin receptor
Purity	>98% (HPLC)
MW	1533.8
Target Areas	endogenous apelin receptor
Solubility (25°C)	H2O:50 mg/mL (32.60 mM)
CAS Number	217082-60-5
Formula	C ₆₉ H ₁₀₈ N ₂₂ O ₁₆ S
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(CC1=CC=CC=C1)C(O)=O
Storage	Storage temperature: -20°C. Stability: ≥ 2 years

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Note For research use only

Expiration Date 12 months from date of receipt.

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