

## Product Datasheet

### [Pyr1]-Apelin-13 (orb1219858)

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

#### Biorbyt Ltd.

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +44 (0)1223 859353 | Fax: +1 (415) 651-8558

#### Biorbyt LLC

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713-2847  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: +1 (415) 906-5211 | Fax: +1 (415) 651-8558

**Note** For research use only

**Expiration Date** 12 months from date of receipt.

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**Biorbyt Ltd.**

7 Signet Court, Swann Road  
Cambridge  
CB5 8LA  
United Kingdom

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+44 \(0\)1223 859353](tel:+44(0)1223859353) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)

**Biorbyt LLC**

68 TW Alexander Drive  
Research Triangle Park  
Durham  
NC 27713-2847  
United States

Email: [info@biorbyt.com](mailto:info@biorbyt.com), [support@biorbyt.com](mailto:support@biorbyt.com)  
Phone: [+1 \(415\) 906-5211](tel:+1(415)906-5211) | Fax: [+1 \(415\) 651-8558](tel:+1(415)651-8558)