

**Product Name:** BigLEN (mouse)

**Catalog No.:** 6304

**Batch No.:** 1

CAS Number: 501036-69-7

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>78</sub>H<sub>130</sub>N<sub>24</sub>O<sub>22</sub>  
**Batch Molecular Weight:** 1756.03  
**Physical Appearance:** White lyophilised solid  
**Net Peptide Content:** 75%  
**Counter Ion:** TFA  
**Solubility:** Soluble to 2 mg/ml in water  
**Storage:** Store at -20°C  
**Peptide Sequence:** Leu-Glu-Asn-Pro-Ser-Pro-Gln-Ala-Pro-Ala-Arg-Arg-Leu-Leu-Pro-Pro

**2. ANALYTICAL DATA**

**HPLC:** Shows 98.2% purity  
**Mass Spectrum:** Consistent with structure

**3. AMINO ACID ANALYSIS DATA**

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala	2.00	1.89	Lys				
Arg	2.00	2.04	Met				
Asx	1.00	0.99	Phe				
Cys			Pro	5.00	4.90		
Glx	2.00	1.97	Ser	1.00	1.03		
Gly			Thr				
His			Trp				
Ile			Tyr				
Leu	3.00	3.07	Val				

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**  
 info@bio-techne.com  
 techsupport@bio-techne.com

**North America**  
 Tel: (800) 343 7475

**China**  
 info.cn@bio-techne.com  
 Tel: +86 (21) 52380373

**Europe Middle East Africa**  
 Tel: +44 (0)1235 529449

**Rest of World**  
 www.tocris.com/distributors  
 Tel:+1 612 379 2956

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CAS Number: 501036-69-7

**Description:**

BigLEN (mouse) is a GPR171 agonist. ProSAAS-derived neuropeptide. Regulates food intake in mice. Inhibits the release of glutamate onto parvocellular neurons of the paraventricular nucleus in a process dependent upon activation of postsynaptic G proteins.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>78</sub>H<sub>130</sub>N<sub>24</sub>O<sub>22</sub>

Batch Molecular Weight: 1756.03

Physical Appearance: White lyophilised solid

**Peptide Sequence:**

Leu-Glu-Asn-Pro-Ser-Pro-Gln-Ala-Pro-Ala-Arg-Arg-Leu-Leu-Pro-Pro

**Storage:** Store at -20°C**Solubility & Usage Info:**

Soluble to 2 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

**Net Peptide Content:** 75% (Remaining weight made up of counterions and residual water).**Counter Ion:** TFA**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

**References:**

**Mack *et al*** (2019) Neuropeptide PEN and its receptor GPR83: distribution, signaling, and regulation. *ACS Chem.Neurosci.* **10** 1884. PMID: 30726666.

**Wardman *et al*** (2011) ProSAAS-derived peptides are colocalized with neuropeptide Y and function as neuropeptides in the regulation of food intake. *PLoS One* **6** e28152. PMID: 22164236 .

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info@bio-techne.com

techsupport@bio-techne.com

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