

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** Obestatin (rat)

**Catalog No.:** 2445

**Batch No.:** 2

CAS Number: 869705-22-6

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>114</sub> H <sub>174</sub> N <sub>34</sub> O <sub>31</sub>
<b>Batch Molecular Weight:</b>	2516.84
<b>Physical Appearance:</b>	White lyophilised solid
<b>Net Peptide Content:</b>	81.2%
<b>Counter Ion:</b>	Acetate
<b>Solubility:</b>	Soluble to 1 mg/ml in water
<b>Storage:</b>	Desiccate at -20°C
<b>Peptide Sequence:</b>	Phe-Asn-Ala-Pro-Phe-Asp-Val-Gly-Ile-Lys- Leu-Ser-Gly-Ala-Gln-Tyr-Gln-Gln-His-Gly- Arg-Ala-Leu-NH <sub>2</sub>

### 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 96.0% purity
<b>Mass Spectrum:</b>	Consistent with structure

### 3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala	3.00	3.09	Lys	1.00	1.04		
Arg	1.00	1.04	Met				
Asx	2.00	2.05	Phe	2.00	2.19		
Cys			Pro	1.00	1.40		
Glx	3.00	3.00	Ser	1.00	0.85		
Gly	3.00	3.08	Thr				
His	1.00	1.04	Trp				
Ile	1.00	0.99	Tyr	1.00	1.01		
Leu	2.00	2.05	Val	1.00	1.08		

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

**Product Name:** Obestatin (rat)**Catalog No.:** 2445**Batch No.:** 2

CAS Number: 869705-22-6

**Description:**

Endogenous peptide derived from the same prepropeptide as ghrelin. Reported to suppress food intake and reduce body weight-gain in rats.

**Physical and Chemical Properties:**Batch Molecular Formula: C<sub>114</sub>H<sub>174</sub>N<sub>34</sub>O<sub>31</sub>

Batch Molecular Weight: 2516.84

Physical Appearance: White lyophilised solid

**Peptide Sequence:**

Phe-Asn-Ala-Pro-Phe-Asp-Val-Gly-Ile-Lys-  
Leu-Ser-Gly-Ala-Gln-Tyr-Gln-Gln-His-Gly-  
Arg-Ala-Leu-NH<sub>2</sub>

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

Soluble to 1 mg/ml in water

**Net Peptide Content:** 81.2% (Remaining weight made up of counterions and residual water).**Counter Ion:** Acetate**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:**

**Zhang *et al*** (2005) Obestatin, a peptide encoded by the ghrelin gene, opposes ghrelin's effects on food intake. *Science* **310** 996. PMID: 16284174.

**Nogueiras and Tschop** (2005) *Biomedicine*. Separation of conjoined hormones yields appetite rivals. *Science* **310** 985. PMID: 16284170.

**Pan and Kastin** (2006) Differential BBB interactions of three ingestive peptides: obestatin, ghrelin, and adiponectin. *Peptides* **27** 911. PMID: 16476508.

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