



PRODUCT DATA SHEET

Product: Ghrelin (Rat)

Cat. No: BC-346 (0.1 mg)

Sequence:

Gly-Ser-Ser(n-Octanoyl)-Phe-Leu-Ser-Pro-Glu-His-Gln-Lys-Ala-Gln-Gln-Arg-Lys-Glu-Ser-Lys-Lys-Pro-Pro-Ala-Lys-Leu-Gln-Pro-Arg

Formula:

$C_{147}H_{245}N_{45}O_{42}$

Molecular Weight:

3314.8

Description:

Ghrelin was discovered in 1999 as the endogenous ligand of growth-hormone secretagogue receptor 1:

- i) Ghrelin is a 28 residue peptide with an n-octanoyl group on Ser3
- ii) The major ghrelin producing organ is the stomach.

Since then, many studies have been performed using synthetic ghrelin. These studies have shown that ghrelin is a multifunctional peptide, with functions that include the regulation of appetite as well as cardiovascular functions.

Format:

Powder. Due to the nature of this material, it may coagulate at the bottom of the vial to form resinous droplets during storage. This change in appearance is not related to any deterioration in the quality of the product.

Preparation:

Without removing the cap, inject 310 μ L of distilled water into the vial using a calibrated syringe. Dissolve the contents thoroughly. This will provide a 0.1 mM solution.

Storage and Stability:

Powder: Store the undissolved peptide at -20°C .
Solution: Prepare 100-200 μ L aliquots and freeze at -20°C . The aqueous solution should be used within two weeks.

Please note: The n-Octanoyl group of the peptide is prone to detachment from the side chain of Ser3 if the aqueous solution is left at room temperature.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.