

## Human Ghrelin

**Catalog No.** CRG123A **Quantity:** 100 µg  
CRG123B 1.0 mg

**Alternate Names:** Obestatin, GHRL, MTLRP

**Description:** Ghrelin ('ghre' is the Proto-Indo-European root of the word 'grow') has been identified as the endogenous ligand for the GHS-R (growth hormone secretagogues receptor). Ghrelin is expressed in the stomach, small and large intestines, and brain regions, that are involved in the regulation of food intake. Both ghrelin and GHS-R expression is also detected in the heart, suggesting that Ghrelin might have some cardiovascular effects. Ghrelin administration stimulates GH secretion but also causes weight gain by increasing food intake. Mature human and rat Ghrelin (28 a.a.) are produced from 117 amino acid precursor. Ghrelin has an unusual modification - a Ser3 residue that is n-octanoylated and is essential for biological activity. Ghrelin is the first known example of a bioactive peptide modified by an acyl acid.

**Gene ID:** 51738

**Protein Accession No:** NP\_057446

**Molecular Weight:** 3,374 Da

**Formulation:** Lyophilized

**Amino Acid Sequence:** GS(X)FLSPEHQRVQQRKESKKPPAKLQPR  
X = serine modified with n-octanoic acid

**Reconstitution:** **Centrifuge vial prior to opening.** Add PBS containing at least 0.1% BSA to the vial to fully solubilize the protein to a concentration of 1.0 mg/ml.

**Storage & Stability:** Store lyophilized protein at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

