



Product Data Sheet

Cat # RP-1514

Human Ghrelin

**Size:** 1 mg

Obestatin is a hormone that is produced in the cells lining the stomach and small intestine of several mammals including humans; it drastically reduces appetite in mice and is expected to do the same in humans. Obestatin is a peptide hormone - a relatively small protein. It is encoded by the same gene that also encodes ghrelin, a peptide hormone that increases appetite. The protein produced by that gene breaks into two smaller peptides, ghrelin and obestatin. Ghrelin is an endogenous ligand for the growth hormone secretagogue receptor and is involved in regulating growth hormone release. Ghrelin is derived from a prohormone called preproghrelin, which also generates a second peptide called obestatin. Ghrelin is an endogenous ligand for the orphan G protein-coupled receptor GPR39 and is involved in satiety and decreased food intake.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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**Source:** Ghrelin Human contains 28 amino acids and a total molecular mass of 3370.9 Dalton and a molecular formula of  $C_{149}H_{249}N_{47}O_{42}$ . The GHRL is purified by proprietary chromatographic techniques. Lyophilized without additives.

**Application and Suggested Dilution:** Add deionized water to a working concentration approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize concentration and conditions for each assay.

**Storage and Stability:** Store the lyophilized Ghrelin at -20°C. Aliquot the product after reconstitution to **avoid repeated freezing/thawing cycles**. Reconstituted GHRL can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.