

**CPA991Hu21 100µg**

**OVA Conjugated Ghrelin (GHRL)**

**Organism Species: Homo sapiens (Human)**

***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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9th Edition (Revised in Jul, 2013)

## **[ PROPERTIES ]**

**Antigen:** GHRL-OVA

**Residues:** Synthetic Peptide

**Predicted isoelectric point:** 11.2

**Predicted Molecular Mass:** 1919.3Da

**Purity:** >95%

**Endotoxin Level:** <1.0EU per 1µg (determined by the LAL method).

**Formulation:** Supplied as lyophilized form in PBS.

**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

## **[ RELEVANCE ]**

Ghrelin, the "hunger hormone", is a peptide produced by ghrelin cells in the gastrointestinal tract which functions as a neuropeptide in the central nervous system. Beyond regulating hunger, ghrelin also plays a significant role in regulating the distribution and rate of use of energy. Ghrelin is a participant in regulating the complex process of energy homeostasis which adjusts both energy input - by adjusting hunger signals - and energy output - by adjusting the proportion of energy going to ATP production, fat storage, glycogen storage, and short-term heat loss. In addition to its function in energy homeostasis, ghrelin also activates the mesolimbic cholinergic - dopaminergic reward link, a circuit that communicates the hedonic and reinforcing aspects of natural rewards, such as food and addictive drugs such as ethanol.

## [ **USAGE** ]

Reconstitute in sterile ddH<sub>2</sub>O.

## [ **STORAGE AND STABILITY** ]

**Storage:** Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

**Stability Test:** The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

## [ **SEQUENCES** ]

The synthetic peptide's sequence is listed below.

QQRKESKKPPAKLQPR