Rat & Human unacylated Ghrelin EIA Kit, Product Flyer

Interest in any of the products, request or order them at Bio-Connect Diagnostics.
Rat & Human unacylated Ghrelin
EIA kit
(A05118 – A05119)

Bertin Pharma
(formerly known as SPI-Bio) is a European leader in bioanalytical tools for application fields such as inflammation, growth hormone, nitric oxide, apoptosis, allergy and much more...

Our success key relies on the technology mastering of the AChE enzyme marker. This technique is used in the different formats of SPI-Bio® and CAYMAN CHEMICAL EIA.

Indeed, Bertin Pharma markets under its own trade mark SPI-Bio® but also for CAYMAN CHEMICAL, IBA, @rtMolecule and BIOSENSE.

Bertin Pharma has a pool of scientists ready to assist you either to develop customs assay or to readily provide you with the appropriate and accurate information.

Due to our distribution platform, we are able to expedite most of orders within 48 hours with express carrier so that the goods remain at temperature for their stability (dry ice).

Bertin Pharma
is also a drug development services company divided into 2 areas of expertise, preclinical & clinical supplies and pharmaceutical development & clinical supplies.

Rat & Human unacylated ghrelin: in the mystery of obesity pathway.

Ghrelin discovered in 1999, is fast becoming an endocrinology target of the millennium. Ghrelin, identified in rat stomach as an endogenous ligand for the GH secretagogue receptor, is mainly produced in stomach, but has been demonstrated in many other organs.

In addition to GH-releasing properties and its orexant action, ghrelin could act as an hormone having effects on gastric motility (similarity with the peptide hormone motilin), acidic secretion, cardiovascular action, antiproliferative effects, pancreatic and glucose metabolism function, sleep...

Ghrelin gene raises to mRNA prepro-ghrelin of 117 amino acids. This precursor is processed into ghrelin, 28 amino acids (human). Before being secreted, this peptide is octanoylated at Ser 3. This step is essential for biological activity.

If the endogenous peptide appears directly related to feeding behaviour, the potential therapeutic importance of this hormone is not restricted to a regulator of food intake but also may be involved in osteoporosis somatopaus, infertility and ovulation induction, and some cardiovascular diseases.

Focus on our EIA kits

This Enzyme Immunometric Assay (EIA) is based on a double-antibody sandwich technique. The wells of the plate supplied with the kit are coated with a monoclonal antibody specific to the C-terminal part of ghrelin. This antibody will bind to any ghrelin introduced into the wells (standard or sample). The acetylcholinesterase (AChE) - Fab' conjugate which recognises the N-terminal part of acylated ghrelin is also added to the wells. This allows the two antibodies to form a sandwich by binding on different parts of the human acylated ghrelin.

The sandwich is immobilised on the plate so the excess reagents may be washed away. The concentration of the human acylated ghrelin is then determined by measuring the enzymatic activity of the immobilized AChE using the Ellman's Reagent. The AChE tracer acts on the Ellman's Reagent to form a yellow compound.

The intensity of the colour, which is determined by spectrophotometry, is proportional to the amount of the human acylated ghrelin present in the well during the immunological incubation.

You will find overleaf a synthesis of our EIA kit. Do not hesitate to contact us for any question that may arise.

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SAS au capital social de 72 000 euros I RCS Versailles I APE 7490 B I VAT n° FR 31380 608 380
Rat & Human unacylated ghrelin EIA kits

A05106 & A05107

Other species than rat and human not tested

Media Application: Plasma
Preanalytical phase: 1/10 dilution prior assay

Storage: -20 °C
Sample volume: 10 µL per well
Shipping: dry ice
Size: 96 wells
Standard curve range: 1.56-250 pg/mL

<table>
<thead>
<tr>
<th>EIA kit # cat n°</th>
<th>Specificity</th>
<th>Limit of detection</th>
<th>Limit of quantification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat unacylated Ghrelin (#A05118)</td>
<td>Rat 100% Human 100%</td>
<td>0.8 pg/mL 0.6 pg/mL</td>
<td>20 pg/mL 20 pg/mL</td>
</tr>
<tr>
<td>Human unacylated Ghrelin (#A05119)</td>
<td>Human 100% Rat 100%</td>
<td>0.6 pg/mL 0.2 pg/mL</td>
<td>20 pg/mL 20 pg/mL</td>
</tr>
</tbody>
</table>

References

Grassi J. & Pradelles Ph.
Compounds labelled by the acetylcholinesterase of Electrophorus Electricus. Its preparation process and its use as a tracer or marker in enzymo-immunological determinations.

Binn M., Albert C., Gougeon A., Maerki H., Coulie B., Marie-Therese Bluet-Pajot, Antonello Forgione
Ghrelin gastrokinetic action in patients with neurogenic gastroparesis

Binn M., Albert C., Gougeon A., Maerki H., Coulie B., Lemoyne M., Rabasa Lhoret R., Tomassetto C., Poitras P.
Ghrelin gastrokinetic action in patients with neurogenic gastroparesis

Hiroshi Hosoda, Masayasu Kojima, Hisayuki Matsuo, Kenji Kangawa
Ghrelin and Des-acyl Ghrelin: Two major forms of rat ghrelin peptide in gastrointestinal tissue
Biochemical and Biophysical Research Communications 279, 909–913 (2000)

Related products

DIABETE/OBESITY

Rat Resistin EIA cat#A05179
Human Adiponectin ELISA cat#A05185
Human acylated Ghrelin EIA cat#A05119
Human Adiponectin EIA cat#A05186
Rat acylated Ghrelin EIA cat#A05117
Mouse / Rat insulin EIA cat#A05105
Mouse Adiponectin EIA cat#A05187
Rat growth hormone EIA cat#A05104
Human Leptin receptor EIA cat#A05175
Rat albumin high sensitivity EIA cat#A05102
Mouse / Rat Leptin EIA cat#A05176
Human AFABP EIA cat#A05181
Human Resistin EIA cat#A05177
Human Leptin EIA cat#A05117
Mouse Resistin EIA cat#A05178