

## Human Relaxin 3 PicoKine ELISA Kit | RLN3 elisa kit

Human Relaxin 3 PicoKine ELISA Kit

CATALOG #  
**AAA46190**

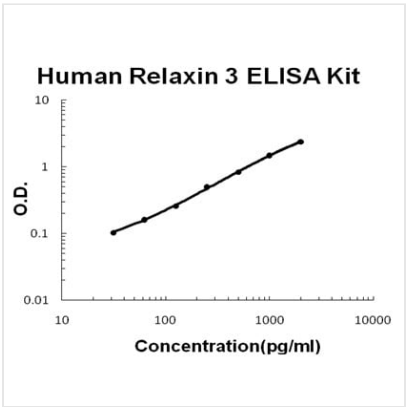
REACTIVITY  
**Human**

### PRODUCT SYNONYMS

Relaxin 3 PicoKine; Human Relaxin 3 PicoKine ELISA Kit; Relaxin-3; H3; INSL 7; INSL7; Insulin like 7; Insulin like peptide 7; Insulin like peptide INSL7; Insulin like7; Insulinlike 7; Prorelaxin H3; Prorelaxin M3; REL 3; REL3; Relaxin 3; Relaxin 3 (H3); Relaxin 3 A chain; Relaxin 3 B chain; Relaxin 3 precursor; Relaxin3; RLN 3; RLN3; RXN 3; RXN3; ZINS 4; ZINS4 ; relaxin 3; RLN3 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Specificity             | Natural and recombinant human Relaxin 3                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sequence Length         | 109                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Assay Range             | 31.2pg/ml-2000pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sensitivity             | <10pg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sample                  | For quantitative detection of human Relaxin 3 in cell culture supernates, serum and plasma(heparin).                                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen               | E Coli, D119-C142(A)&A27-R53(B)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Assay Procedure Step 1  | Aliquot 0.1ml per well of the 2000pg/ml,1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml human Relaxin 3 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin) to each empty well. It is recommended that each human Relaxin 3 standard solution and each sample be measured in duplicate. |
| Intra-Assay Precision   | Inter-Assay Precision<br>Sample 1 2 3 1 2 3<br>n 16 16 16 24 24 24<br>Mean(pg/ml) 112 259 973 125 276 1093<br>Standard deviation 6.16 13.20 50.59 7.75 16.28 60.11<br>CV(%) 5.5 5.1 5.2 6.2 5.9 5.5                                                                                                                                                                                                                                                                                   |
| Sample Data             | Concentration(pg/ml) 0 31.2 62.5 125 250 500 1000 2000<br>O.D. 0.020 0.069 0.114 0.228 0.443 0.783 1.395 2.222                                                                                                                                                                                                                                                                                                                                                                        |
| Anticoagulant           | Heparin                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                   |



Standard Curve (Sample)  
Human Relaxin 3 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for RLN3 elisa kit | <p>Principle of the assay: Human Relaxin 3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Relaxin 3 has been precoated onto 96-well plates. Standards(E Coli, D119-C142 (A) &amp; A27-R53(B)) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Relaxin 3 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Relaxin 3 amount of sample captured in plate.</p> <p>Background: Relaxin-3 is a neuropeptide which is highly conserved in species ranging from flies, fish, rodents and humans. It is a member and ancestral gene of the relaxin family of peptides, which includes the namesake hormone relaxin (designated 'H2 relaxin' in humans) which mediates peripheral actions during pregnancy and which was found to relax the pelvic ligament in guinea pigs almost a century ago. The broad distribution of relaxin-3 fibres/RXFP3 within several key neuronal circuits suggests an ability to modulate a broad range of behaviours. This has been confirmed in a growing number of rodent studies, which demonstrate relaxin-3 is able to modulate arousal, the response to stress, feeding/metabolism and memory; and likely plays a role in the generation/regulation of hippocampal theta rhythm.</p> |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                        |
|----------------------------------|------------------------|
| NCBI GI #                        | 909618058              |
| NCBI GeneID                      | 117579                 |
| NCBI Accession #                 | NP_001298126.1         |
| NCBI GenBank Nucleotide #        | NM_001311197.1         |
| UniProt Accession #              | Q8WXF3; Q6UXW5         |
| Molecular Weight                 | 15,451 Da              |
| NCBI Official Full Name          | relaxin-3              |
| NCBI Official Synonym Full Names | relaxin 3              |
| NCBI Official Symbol             | RLN3                   |
| NCBI Official Synonym Symbols    | H3; RXN3; ZINS4; insl7 |
| NCBI Protein Information         | relaxin-3              |
| UniProt Protein Name             | Relaxin-3              |

|                            |                                            |
|----------------------------|--------------------------------------------|
| UniProt Gene Name          | RLN3                                       |
| UniProt Synonym Gene Names | INSL7; RXN3; ZINS4; Insulin-like peptide 7 |
| UniProt Entry Name         | REL3_HUMAN                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/relaxin-3-picokine/46190>