

## Human Proenkephalin-A ELISA Kit | PENK elisa kit

Human Proenkephalin-A ELISA Kit

CATALOG #  
**AAA99529**

REACTIVITY  
**Human**

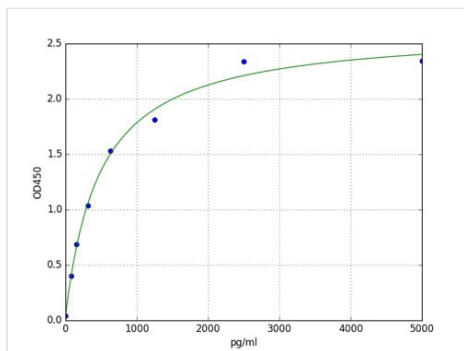
### PRODUCT SYNONYMS

Proenkephalin-A; Human Proenkephalin-A ELISA Kit; PENK/Proenkephalin-A; PENK elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                        |
| Sequence Length         | 267                                                                                                                                                          |
| Assay Type              | Sandwich ELISA, Double Antibody                                                                                                                              |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                         |
| Detection Range         | 78.125-5000pg/ml                                                                                                                                             |
| Sensitivity             | 46.875pg/ml                                                                                                                                                  |
| Preparation and Storage | Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C |

### IMAGES



#### Typical Data & Standard Curve

Results of a typical standard run of a Human Proenkephalin-A ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A-not applicable)

| X | pg/ml | 0     | 78    | 156   | 312.5 | 625   | 1250  | 2500  | 5000  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Y | OD450 | 0.022 | 0.119 | 0.210 | 0.379 | 0.700 | 1.226 | 1.996 | 2.917 |

Standard Curve (Sample)

Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for PENK elisa kit

**Principle of the Assay**||This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Human Proenkephalin-A antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Human Proenkephalin-A antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 Proenkephalin-A amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Human Proenkephalin-A can be calculated.

NCBI AND UNIPROT INFORMATION

|                                  |                               |
|----------------------------------|-------------------------------|
| NCBI GI #                        | 208879446                     |
| NCBI GeneID                      | 5179                          |
| NCBI Accession #                 | NP_001129162.1                |
| NCBI GenBank Nucleotide #        | NM_001135690.2                |
| Molecular Weight                 | 30,787 Da                     |
| NCBI Official Full Name          | proenkephalin-A preproprotein |
| NCBI Official Synonym Full Names | proenkephalin                 |
| NCBI Official Symbol             | PENK                          |
| NCBI Official Synonym Symbols    | PE; PENK-A                    |
| NCBI Protein Information         | proenkephalin-A               |
| UniProt Protein Name             | Proenkephalin-A               |
| UniProt Gene Name                | <b>PENK</b>                   |
| UniProt Synonym Gene Names       | OGF                           |
| UniProt Entry Name               | PENK_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.

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Online datasheet: <https://stage.aaabiotech.com/penk-human-elisa-kits/proenkephalin-a/99529>