

Human Proenkephalin (PENK) ELISA Kit | PENK elisa kit

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CATALOG #
AAA135756

REACTIVITY
Human

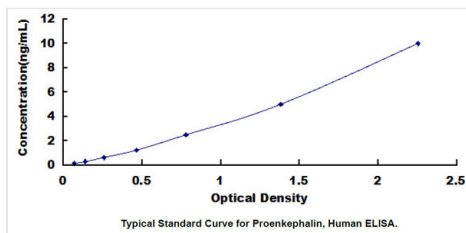
PRODUCT SYNONYMS

Proenkephalin (PENK); Human Proenkephalin (PENK) ELISA Kit; Preproenkephalin; Proenkephalin-A; Synenkephalin; Met-enkephalin; Met-enkephalin-Arg-Gly-Leu; Leu-enkephalin; Met-enkephalin-Arg-Phe; PENK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of proenkephalin. No significant cross-reactivity or interference between proenkephalin and analogues was observed.
Sequence Length	269
Assay Type	Quantitative Sandwich
Samples	Human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.062ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level proenkephalin were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level proenkephalin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PENK elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to proenkephalin. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to proenkephalin. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain proenkephalin, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of proenkephalin in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of proenkephalin in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for PENK elisa kit	Neuroscience

NCBI AND UNIPROT INFORMATION

NCBI GI #	259153
NCBI GeneID	29237
UniProt Accession #	P04094; Q53X05
Molecular Weight	30,932 Da
NCBI Official Full Name	proenkephalin
NCBI Official Synonym Full Names	proenkephalin
NCBI Official Symbol	Penk
NCBI Official Synonym Symbols	Enk; Penk1; Penk2; Penk-rs
NCBI Protein Information	proenkephalin-A
UniProt Protein Name	Proenkephalin-A
UniProt Gene Name	Penk
UniProt Synonym Gene Names	Penk-rs; Penk1; OGF
UniProt Entry Name	PENK_RAT

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/human-elisa-kits/proenkephalin-penk/135756>