

Human Proenkephalin (PENK) ELISA Kit | PENK elisa kit

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CATALOG #
AAA31490

REACTIVITY
Human

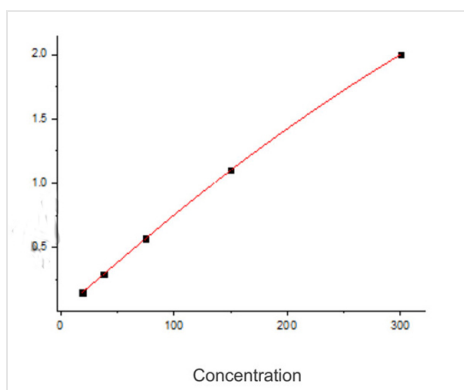
PRODUCT SYNONYMS

Proenkephalin (PENK); Human Proenkephalin (PENK) ELISA Kit; PENK; Enkephalin A; preproenkephalin; PENK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Sequence Length	267
Assay Type	Sandwich
Samples	Human serum, cell culture supernates and other biological fluids
Detection Range	18.75 pg/ml - 300 pg/ml
Sensitivity	< 5pg/ml
Intra-assay Precision	Four samples of known concentration were tested twenty times on one plate to assess intra-assay precision. The CV (%)?9%.
Inter-assay Precision	Three samples of known concentration were tested in twenty separate assays to assess inter-assay precision. Assays were performed by at least three technicians using two lots of components. The CV (%)?11%.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for PENK elisa kit	Background: Preproenkephalin has 267 amino acids, as does proopiomelanocortin. Both genes contain 2 introns. In both, all the repeated enkephalin or melanotropin sequences are encoded by a single large exon (exon 3). Preproenkephalin mRNA encodes 4 copies of met-enkephalin, 2 copies of met-enkephalin extended sequences, and 1 copy of leu-enkephalin. Each copy is flanked by paired basic amino acids which are presumably recognized by the processing protease. The corresponding amino acid sequence shows that the precursor is 267 amino acids long and contains 6 interspersed Met-enkephalin sequences and 1 Leu-enkephalin sequence. The precursor does not contain the sequences of dynorphin, alpha-neo-endorphin or beta-endorphin. Principle of the Assay: Human Proenkephalin (PENK) ELISA Kit employs a two-site sandwich ELISA to quantitate PENK in samples. An antibody specific for PENK has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PENK present is bound by the immobilized antibody. After removing any unbound substances, HRP-Conjugated Human PENK detection antibody is added to the wells. Following a wash to remove any unbound HRP reagent, a Chromogen solution is added to the wells and color develops in proportion to the amount of PENK bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	208879446
NCBI GeneID	5179
NCBI Accession #	NP_001129162.1
NCBI GenBank Nucleotide #	NP_001129162.1
UniProt Accession #	P01210
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	PENK
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.