

Rat Enkephalin (ENK) ELISA Kit | ENK elisa kit

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CATALOG #
AAA139074

REACTIVITY
Rat

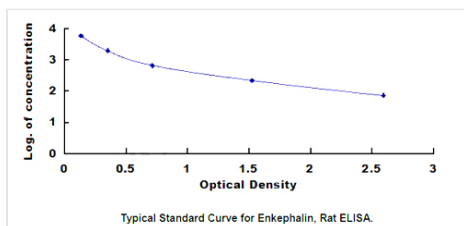
PRODUCT SYNONYMS

Enkephalin (ENK); Rat Enkephalin (ENK) ELISA Kit; ENK elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of enkephalin. No significant cross-reactivity or interference between enkephalin and analogues was observed.
Sequence Length	269
Samples	Rat serum, plasma and other biological fluids
Assay Type	Competitive
Detection Range	74.07-6,000pg/mL
Sensitivity	The minimum detectable dose of enkephalin is typically less than 28.35pg/mL. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined by subtracting two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level enkephalin 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 enkephalin were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intended Uses	The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of enkephalin in rat serum, plasma and other biological fluids.
Preparation and Storage	For unopened kit, all the reagents should be kept according to the label on each vial. The Standard, Detection Reagent A, Detection Reagent B and the 96-well strip plate should be stored at -20 degree C while others should be at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ENK elisa kit	Principle of the assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to enkephalin has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled enkephalin and unlabeled enkephalin (Standards or samples) with the pre-coated antibody specific to enkephalin. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of enkephalin in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of enkephalin in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	204026
NCBI GeneID	29237
UniProt Accession #	P04094; Q53X05
Molecular Weight	30,932 Da
NCBI Official Full Name	enkephalin
NCBI Official Synonym Full Names	proenkephalin
NCBI Official Symbol	Penk
NCBI Official Synonym Symbols	Enk; Penk1; Penk2; Penk-rs
NCBI Protein Information	proenkephalin-A; preproenkephalin 2; proenkephalin 1; proenkephalin related sequence
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/rat-elisa-kits/enkephalin-enk/139074>