Mouse Proenkephalin (PENK) ELISA Kit

Catalog No: #EK8586

Package Size: #EK8586-1 48T #EK8586-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Proenkephalin (PENK) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	Enkephalin A|preproenkephalin
Accession No.	P22005
Storage	The stability of ELISA 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. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:62.5 pg/mL - 4000 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 μL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Sandwich

Test principle:This assay 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 anyPENK present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PENK is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate 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.

Product Overview: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.