

Parathyroid Hormone (PTH) ELISA Kit | PTH elisa kit

Rat Parathyroid Hormone (PTH) ELISA Kit

CATALOG #
AAA182150

REACTIVITY
Rat

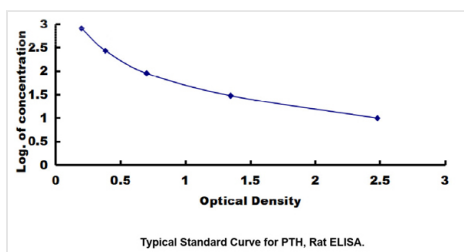
PRODUCT SYNONYMS

Parathyroid Hormone (PTH); Rat Parathyroid Hormone (PTH) ELISA Kit; iPTH; Intact Parathyroid Hormone; Parathormone; Parathyrin; PTH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of PTH. No significant cross-reactivity or interference between PTH and analogues was observed.
Sequence Length	115
Assay Type	Quantitative Competitive
Samples	Rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	9.88-800pg/mL
Sensitivity	< 4.63pg/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level PTH 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 PTH 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 PTH elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to PTH has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled PTH and unlabeled PTH (Standards or samples) with the pre-coated antibody specific to PTH. 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 PTH in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of PTH in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of PTH in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
References	Impact of Dehydroepiandrosterone (DHEA) on Bone Mineral Density and Bone Mineral Content in a Rat Model of Male Hypogonadism; Vet Sci; 2020 Nov 23;7(4):185.; PMID: 33238425; Hussein F Sakr; Department of Physiology, College of Medicine and Health sciences, Sultan Qaboos University, Muscat 123, Oman.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506267
NCBI GeneID	5741
NCBI Accession #	NP_000306.1
NCBI GenBank Nucleotide #	NM_000315.3
UniProt Accession #	P01270 ; Q4VB48 ; Q9UD38
Molecular Weight	12,861 Da
NCBI Official Full Name	parathyroid hormone isoform 1 preproprotein
NCBI Official Synonym Full Names	parathyroid hormone
NCBI Official Symbol	PTH
NCBI Official Synonym Symbols	PTH1
NCBI Protein Information	parathyroid hormone
UniProt Protein Name	Parathyroid hormone
UniProt Gene Name	PTH
UniProt Synonym Gene Names	PTH

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://www.aaabiotech.com/rat-elisa-kits/parathyroid-hormone-ptb/182150>