

Human Parathyroid Hormone (PTH) ELISA Kit | PTH elisa kit

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CATALOG #
AAA331998

REACTIVITY
Human

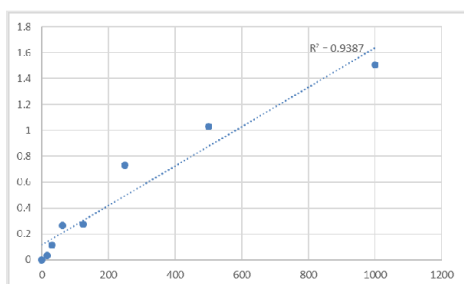
PRODUCT SYNONYMS

Parathyroid Hormone (PTH); Human Parathyroid Hormone (PTH) ELISA Kit; PTH; PTH1; parathormone; parathyrin; parathyroid hormone 1; PTH elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Parathyroid hormone (PTH) ELISA Kit has high sensitivity and excellent specificity for detection of Human PTH. No significant cross-reactivity or interference between Human PTH and analogues was observed.
Sequence Length	115
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Parathyroid hormone (PTH) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PTH elisa kit	Description: This Human Parathyroid hormone (PTH) ELISA Kit employs a two-site sandwich ELISA to quantitate PTH in samples. An antibody specific for PTH has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PTH present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PTH 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 PTH bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Parathyroid hormone is secreted by the parathyroid glands as a polypeptide containing 84 amino acids. It acts to increase the concentration of calcium (Ca2+) in the blood, whereas calcitonin (a hormone produced by the parafollicular cells (C cells) of the thyroid gland) acts to decrease calcium concentration. PTH acts to increase the concentration of calcium in the blood by acting upon parathyroid hormone receptor in three parts of the body: PTH half-life is approximately 4 minutes. It has a molecular mass of 9.4 kDa.PTH was one of the first hormones to be shown to use the G-protein, adenylyl cyclase second messenger system.Normal total plasma calcium level ranges from 8.5 to 10.2 mg/dL (2.12 mmol/L to 2.55 mmol/L).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506267
NCBI GeneID	5741
NCBI Accession #	NP_000306.1
NCBI GenBank Nucleotide #	NP_000306.1
UniProt Accession #	P01270
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
UniProt Entry Name	PTHY_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.