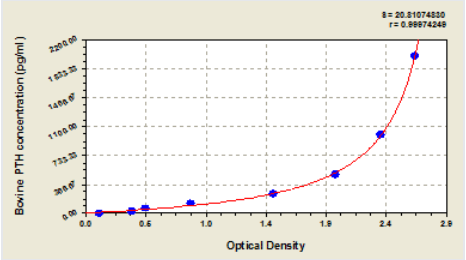
Parathyroid Hormone (PTH) ELISA Kit for Bovine

PRODUCT OVERVIEW

Product Name	parathyroid hormone (PTH), ELISA Kit
Full Product Name	Bovine Parathyroid hormone, PTH ELISA Kit
Product Gene Name	PTH elisa kit
Product Synonym Names	Bovine Parathyroid hormone (PTH) ELISA kit; PTH1; parathormone; parathyrin; parathyroid hormone 1; parathyroid hormone
Species Reactivity	Bovine
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates
Detection Range	31.25 pg/ml -2000 pg/ml.
Sensitivity	The minimum detectable dose of bovine PTH is typically less than 7.8 pg/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 the mean O.D value of 20 replicates of the zero standard added by their three standard deviations.
Specificity	This assay has high sensitivity and excellent specificity for detection of bovine PTH. No significant cross-reactivity or interference between bovine PTH and analogues was observed.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Molecular Weight	12,980 Da
3D Structure	ModBase 3D Structure for P01268
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for PTH elisa kit	**Principle of the assay:** This assay employs the quantitative sandwich enzyme immunoassay technique. 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, avidin 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.
Other Notes	Small volumes of PTH elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PTH purchase	MBS947744 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the parathyroid hormone (PTH) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing PTH. The ELISA analytical biochemical technique of the MBS947744 kit is based on PTH antibody-PTH antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect PTH antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, PTH. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of PTH elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTH. It may not necessarily be applicable to this product.

NCBI GI #	31982386
NCBI GeneID	280903
NCBI Accession #	NP_776379.2
UniProt Primary Accession #	P01268
UniProt Related Accession #	P01268
GenBank Nucleotide #	NM_173954.2
NCBI Official Full Name	parathyroid hormone
NCBI Official Synonym Full Names	parathyroid hormone
NCBI Official Symbol	PTH
UniProt Protein Name	Parathyroid hormone
UniProt Synonym Protein Names	Parathyrin
Protein Family	Parathyroid hormone
UniProt Gene Name	PTH
UniProt Synonym Gene Names	PTH
UniProt Entry Name	PTHY_BOVIN
NCBI Protein Information	parathyroid hormone; parathyrin
UniProt Comments for PTH	**Function:** PTH elevates calcium level by dissolving the salts in bone and preventing their renal excretion. Stimulates [1-14C]-2-deoxy-D-glucose (2DG) transport and glycogen synthesis in osteoblastic cells
Research Articles on PTH	**1.** These data suggest that prostaglandin E2 acting via EP4R on bone marrow macrophages committed to the osteoblast cell lineage, stimulated secretion of a factor or factors that acted to suppress PTH-stimulated osteoblast differentiation.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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