

Human Thymosin Beta 4 (Tb4) ELISA Kit | Tb4 elisa kit

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CATALOG #
AAA140437

REACTIVITY
Human

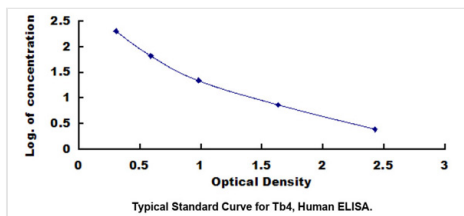
PRODUCT SYNONYMS

Thymosin Beta 4 (Tb4); Human Thymosin Beta 4 (Tb4) ELISA Kit; TMSB4X; FX; PTMB4; TB4X; TMSB4; Thymosin; Beta 4; X-Linked; TB-500; Seraspenide; Hematopoietic system regulatory peptide; Tb4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Tb4. No significant cross-reactivity or interference between Tb4 and analogues was observed.
Sequence Length	44
Assay Type	Quantitative Competitive
Samples	Human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	2.47-200ng/mL
Sensitivity	< 0.92ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Tb4 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 Tb4 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 Tb4 elisa kit	Principle of the Assay: This assay employs the competitive inhibition enzyme immunoassay technique. A monoclonal antibody specific to Tb4 has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled Tb4 and unlabeled Tb4 (Standards or samples) with the pre-coated antibody specific to Tb4. 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 Tb4 in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of Tb4 in the sample. Intended Uses: The kit is a competitive inhibition enzyme immunoassay technique for the in vitro quantitative measurement of Tb4 in human serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Product Categories/Family for Tb4 elisa kit	Metabolic pathway; Endocrinology; Bone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	11056061
NCBI GeneID	7114
NCBI Accession #	NP_066932.1
NCBI GenBank Nucleotide #	NM_021109.3
UniProt Accession #	P62328; P01253; P01254; Q546P5; Q63576; Q9UE55
Molecular Weight	5,053 Da
NCBI Official Full Name	thymosin beta-4
NCBI Official Synonym Full Names	thymosin beta 4, X-linked
NCBI Official Symbol	TMSB4X
NCBI Official Synonym Symbols	FX; TB4X; PTMB4; TMSB4
NCBI Protein Information	thymosin beta-4
UniProt Protein Name	Thymosin beta-4
UniProt Gene Name	TMSB4X
UniProt Synonym Gene Names	TB4X; THYB4; TMSB4; T beta-4
UniProt Entry Name	TYB4_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.