

Bovine TGF-beta (Transforming Growth Factor Beta) ELISA Kit | BMP7 elisa kit

Bovine TGF-beta (Transforming Growth Factor Beta)

CATALOG #
AAA17745

REACTIVITY
Bovine

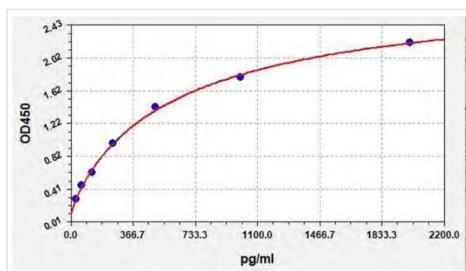
PRODUCT SYNONYMS

TGF-beta (Transforming Growth Factor Beta); Bovine TGF-beta (Transforming Growth Factor Beta); BMP7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine
Specificity	Specifically recognize TGF-beta, no obvious cross reaction with other analogues
Sequence Length	431
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	31.25-2000pg/ml
Sensitivity	18.75pg/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMP7 elisa kit	Background: Transforming growth factor-beta (TGF-beta) superfamily members are important regulatory molecules in cell proliferation, differentiation, development pattern determination and morphogenesis, as well as disease pathologic processes. There are three members of the TGF-beta family, called TGF-beta1, TGF-beta2, and TGF-beta3, respectively, which are encoded by different genes and expressed in a tissue-specific manner. The TGF-beta protein is synthesized as a precursor protein, which is cleaved and activated to reassemble and then binds to other proteins to form a latent complex. Activation occurs during proteolytic release of TGF-beta monomers, resulting in dimerization into mature TGF-beta ligands. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti TGF-beta antibody was pre-coated onto the 96-well plate. The biotin conjugated anti TGF-beta antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with TGF-beta conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of TGF-beta in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	339564
NCBI GeneID	655
Molecular Weight	49,313 Da
NCBI Official Full Name	transforming growth factor-beta
NCBI Official Synonym Full Names	bone morphogenetic protein 7
NCBI Official Symbol	BMP7
NCBI Official Synonym Symbols	OP-1
NCBI Protein Information	bone morphogenetic protein 7
UniProt Protein Name	Bone morphogenetic protein 7
UniProt Gene Name	BMP7
UniProt Synonym Gene Names	OP1; BMP-7; OP-1
UniProt Entry Name	BMP7_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.

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Online datasheet: <https://stage.aaabiotech.com/bovine-ovine-elisa-kits/tgf-beta-transforming-growth-factor-beta/17745>