

BMP-5 elisa kit

Bovine BMP-5 PicoKine ELISA Kit

CATALOG # AAA124758	REACTIVITY Bovine There is no detectable cross-reactivity with other relevant proteins.	APPLICATIONS ELISA
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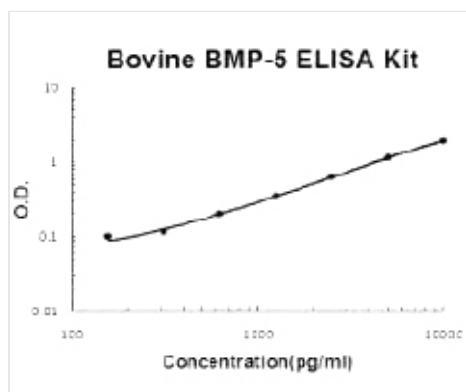
PRODUCT SYNONYMS

BMP-5; Bovine BMP-5 PicoKine ELISA Kit; Bone morphogenetic protein 5; BMP5; BMP-5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine There is no detectable cross-reactivity with other relevant proteins.
Specificity	Natural and recombinant Bovine BMP-5
Sequence Length	417
Assay Type	Quantitative Sandwich
Detection Range	156pg/ml-10000pg/ml
Sensitivity	<10pg/ml
Applicable Applications for BMP-5 elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration weretested on one plate to assess intra-assay precision
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration weretested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMP-5 elisa kit	Principle of the Assay: Bovine BMP-5 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Bovine BMP-5 has been precoated onto 96-well plates. Standards(Expression system for standard: NSO; Immunogen sequence: A317-H454) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Bovine BMP-5 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the Bovine BMP-5 amount of sample captured in plate. Background: Bone morphogenetic protein 5 is a protein that in humans is encoded by the BMP5 gene.1,2,3 The protein encoded by this gene is member of the TGFbeta superfamily. Bone morphogenetic proteins are known for their ability to induce bone and cartilage development. BMP5 may play a role in certain cancers. Like other BMP's BMP5 is inhibited by chordin and noggin. It is expressed in the trabecular meshwork and optic nerve head and may have a role in the development and normal function. It is also expressed in the lung and liver. BMP-5 is mapped on Bovine chromosome 6.4 The standard used in this kit is recombinant BMP-5 with the monomer molecular mass of 18KDa.
Product Categories/Family for BMP-5 elisa kit	Cardiovascular; Angiogenesis; Growth Factors; TGF; Signal Transduction; Cytoskeleton/ECM; Extracellular Matrix; ECM Proteins; Collagen; Growth Factors/Hormones; Structures; Bone; Stem Cells; Signaling Pathways; TGF Beta; Secreted

NCBI AND UNIPROT INFORMATION

NCBI GI #	1047600467
NCBI GeneID	653
NCBI Accession #	NP_001316683.1
NCBI GenBank Nucleotide #	NM_001329754.1
UniProt Accession #	P22003; Q9H547; Q9NTM5; B4E0Y4
Molecular Weight	51737 MW
NCBI Official Full Name	bone morphogenetic protein 5 isoform 2
NCBI Official Synonym Full Names	bone morphogenetic protein 5
NCBI Official Symbol	BMP5
NCBI Protein Information	bone morphogenetic protein 5
UniProt Protein Name	Bone morphogenetic protein 5
UniProt Gene Name	BMP5
UniProt Synonym Gene Names	BMP-5

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.