

Human BMP-7 ELISA Kit | BMP-7 elisa kit

BMP-7 Human ELISA Kit

CATALOG # AAA59000	REACTIVITY Human	APPLICATIONS ELISA
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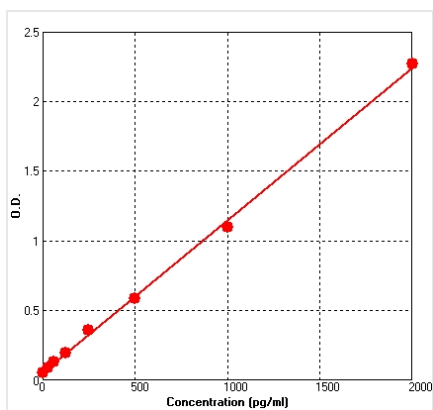
PRODUCT SYNONYMS

BMP-7; BMP-7 Human ELISA Kit; Human BMP-7; BMP-7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Detection Range	31.2 pg/ml-2000 pg/ml
Sensitivity	< 10pg/ml
Applicable Applications for BMP-7 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMP-7 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-BMP-7 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-BMP-7 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 BMP-7 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of BMP-7 can be calculated.

Background: Bone morphogenetic protein 7 or BMP7 (also known as osteogenic protein-1 or OP-1) is a member of the TGF-beta superfamily. It is expressed in the brain, kidneys and bladder. Like other members of the bone morphogenetic protein family of proteins, it plays a key role in the transformation of mesenchymal cells into bone and cartilage. It is inhibited by noggin and a similar protein, chordin, which are expressed in the Spemann-Mangold Organizer. BMP7 induces the phosphorylation of SMAD1 and SMAD5, which in turn induce transcription of numerous osteogenic genes. It has been demonstrated that BMP7 treatment is sufficient to induce all of the genetic markers of osteoblast differentiation in many cell types.

NCBI AND UNIPROT INFORMATION

NCBI GI #	147903952
NCBI GeneID	379625
NCBI Accession #	NP_001079934.1
NCBI GenBank Nucleotide #	NM_001086465.1
UniProt Accession #	P30886; Q91645
Molecular Weight	48,965 Da
NCBI Official Full Name	bone morphogenetic protein 7
NCBI Official Synonym Full Names	bone morphogenetic protein 7, gene 2<
NCBI Official Symbol	bmp7.2
NCBI Official Synonym Symbols	bmp7
NCBI Protein Information	bone morphogenetic protein 7; OP-1; BMP-7; xBMP7; osteogenic protein 1
UniProt Protein Name	Bone morphogenetic protein 7
UniProt Gene Name	bmp7
UniProt Synonym Gene Names	BMP-7; xBMP7; OP-1
UniProt Entry Name	BMP7_XENLA

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/human-elisa-kits/bmp-7/59000>