

Human BMP-7 ELISA Kit | BMP7 elisa kit

Human BMP-7 PicoKine ELISA Kit

CATALOG #
AAA45271

REACTIVITY
Human

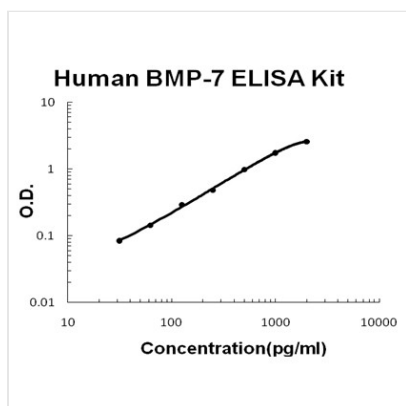
PRODUCT SYNONYMS

BMP-7; Human BMP-7 PicoKine ELISA Kit; Bone morphogenetic protein 7; bone morphogenetic protein 7; BMP 7; Eptotermin alfa; OP 1; OP1; Osteogenic protein 1; OTTHUMP00000166094; BMP7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human BMP-7
Sequence Length	431
Samples	Bone tissue, cell culture supernates, serum, plasma (heparin, EDTA) and urine
Assay Type	Sandwich
Detection Range	31.2pg/ml-2000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested 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 (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human BMP-7 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for BMP7 elisa kit	Principle of the assay: human BMP-7 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for BMP-7 has been precoated onto 96-well plates. Standards(NSO, S293-H431) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for BMP-7 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 human BMP-7 amount of sample captured in plate. Background: Bone morphogenetic protein 7 or BMP7 (also known as osteogenic protein-1 or OP-1) is a protein that in humans is encoded by the BMP7 gene.The protein encoded by this gene is a member of the TGF-beta superfamily. 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 may be involved in bone homeostasis. It is expressed in the brain, kidneys and bladder.
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NCBI AND UNIPROT INFORMATION

NCBI GeneID	655
UniProt Accession #	A8K571; P18075
Molecular Weight	49,313 Da
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; osteogenic protein 1
UniProt Protein Name	Bone morphogenetic protein 7 (Osteogenic protein 1), isoform CRA_b
UniProt Gene Name	BMP7
UniProt Entry Name	A8K571_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.