

Rat BMP-7 PicoKine ELISA Kit | Bmp7 elisa kit

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CATALOG #
AAA46134

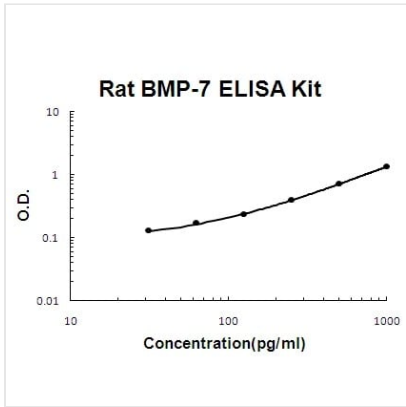
REACTIVITY
Rat

PRODUCT SYNONYMS

BMP-7 PicoKine; Rat BMP-7 PicoKine ELISA Kit; Bone morphogenetic protein 7; BMP 7; BMP7; BMP-7; Eptotermin alfa; OP 1; OP1; OP1-; Osteogenic protein 1; bone morphogenetic protein 7; Bmp7 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	Natural and recombinant rat BMP-7
Sequence Length	306
Assay Range	31.2pg/ml-2000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of rat BMP-7 in bone tissue, cell culture supernates, serum and plasma((heparin, EDTA).
Immunogen	CHO, S292-H430
Assay Procedure Step 1	Aliquot 0.1ml per well of the 2000pg/ml,1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.2pg/ml rat BMP-7 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of rat bone tissue, cell culture supernates, serum or plasma((heparin, EDTA) to each empty well. It is recommended that each rat BMP-7 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 135 609 1288 198 716 1563 Standard deviation 6.08 32.28 66.98 15.05 58.71 109.41 CV(%) 4.5 5.3 5.2 7.6 8.2 7.0
Sample Data	Concentration(pg/ml) 0 31.2 62.5 125 250 500 1000 2000 O.D. 0.084 0.129 0.171 0.233 0.391 0.712 1.320 2.240
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Rat BMP-7 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for Bmp7 elisa kit	Principle of the assay: Rat 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(Expression system for standard: CHO, Immunogen sequence: S292-H430) 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 rat 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 GI #	81907235
NCBI GeneID	85272
UniProt Accession #	Q9R228
Molecular Weight	34,953 Da
NCBI Official Full Name	Bone morphogenetic protein 7
NCBI Official Synonym Full Names	bone morphogenetic protein 7
NCBI Official Symbol	Bmp7
NCBI Official Synonym Symbols	BMP-7
NCBI Protein Information	bone morphogenetic protein 7
UniProt Protein Name	Bone morphogenetic protein 7
UniProt Gene Name	Bmp7
UniProt Entry Name	Q9R228_RAT

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://www.aaabiotech.com/rat-elisa-kits/bmp-7-picokine/46134>