

Rat BMP7 ELISA Kit | BMP7 elisa kit

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CATALOG #
AAA263153

REACTIVITY
Rat

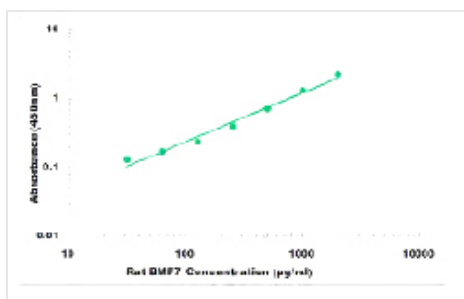
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	The Rat BMP7 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat BMP7 proteins within the range of 31.2 pg/ml - 2000 pg/ml.
Sequence Length	306
Samples	Bone Tissue, Cell Culture Supernates, Serum, Plasma
Sensitivity	<10 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMP7 elisa kit

Principle of the Assay: The Rat BMP7 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat BMP7 in Bone Tissue, Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Rat BMP7 coated on a 96-well plate. Standards and samples are pipetted into the wells and BMP7 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat BMP7 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of BMP7 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	81907235
NCBI GeneID	85272
UniProt Accession #	Q9R228; G3V6W8
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://stage.aaabiotech.com/rat-elisa-kits/bmp7/263153>