

Rat Bone Morphogenetic Protein 4 (BMP4) ELISA Kit | BMP4 elisa kit

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CATALOG #
AAA139219

REACTIVITY
Rat

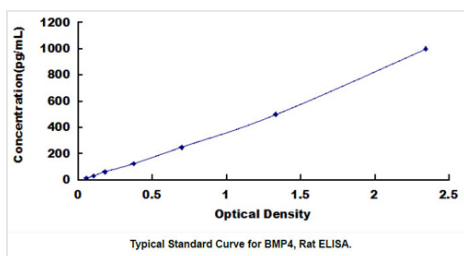
PRODUCT SYNONYMS

Bone Morphogenetic Protein 4 (BMP4); Rat Bone Morphogenetic Protein 4 (BMP4) ELISA Kit; BMP4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of BMP4. No significant cross-reactivity or interference between BMP4 and analogues was observed.
Sequence Length	402
Samples	Rat serum, plasma and other biological fluids
Detection Range	15.6-1,000pg/mL
Sensitivity	The minimum detectable dose of BMP4 is typically less than 6.5pg/mL. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined by adding two standard deviations to the mean optical density value of twenty zero standard replicates and calculating the corresponding concentration.
Intray-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level BMP4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level BMP4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intended Uses	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of BMP4 in rat serum, plasma and other biological fluids.
Preparation and Storage	For unopened kit, all the reagents should be kept according to the label on each vial. The Standard, Detection Reagent A, Detection Reagent B and the 96-well strip plate should be stored at -20 degree C while others should be at 4 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMP4 elisa kit	Principle of the assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to BMP4. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to BMP4. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain BMP4, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of BMP4 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1311542
NCBI GeneID	652
UniProt Accession #	P12644; Q9UM80
Molecular Weight	46,555 Da
NCBI Official Full Name	bone morphogenetic protein 4
NCBI Official Synonym Full Names	bone morphogenetic protein 4
NCBI Official Symbol	BMP4
NCBI Official Synonym Symbols	ZYME; BMP2B; OFC11; BMP2B1; MCOPS6
NCBI Protein Information	bone morphogenetic protein 4; BMP-2B; BMP-4; bone morphogenetic protein 2B
UniProt Protein Name	Bone morphogenetic protein 4
UniProt Gene Name	BMP4
UniProt Synonym Gene Names	BMP2B; DVR4; BMP-4; BMP-2B
UniProt Entry Name	BMP4_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.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/bone-morphogenetic-protein-4-bmp4/139219>