

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

Multi-species Bone Morphogenetic Protein 4 (BMP4) ELISA Kit

CATALOG #
AAA141189

REACTIVITY
Human, Mouse, Rat

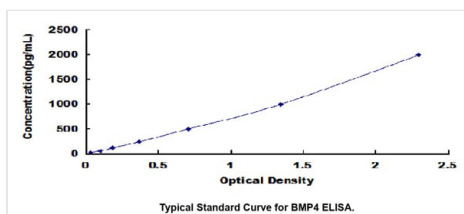
PRODUCT SYNONYMS

Bone Morphogenetic Protein 4 (BMP4); Multi-species Bone Morphogenetic Protein 4 (BMP4) ELISA Kit; Human/Mouse/Rat Bone Morphogenetic Protein 4 (BMP4) (Sandwich ELISA) ELISA Kit; BMP2B; BMP2-B; BMP2B1; ZYME; DVR4; Bone morphogenetic protein 2B; BMP4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Specificity	This assay has high sensitivity for detection of BMP4. 100% cross-reactivity of BMP4 was observed among human, mouse and rat.
Sequence Length	402
Assay Type	Quantitative Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids
Detection Range	31.2-2,000pg/mL
Sensitivity	< 11.7pg/mL
Intra-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%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMP4 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to BMP4. Standards or samples are then added to the appropriate microplate 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. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of BMP4 in serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids. Due to the 97% homology of the sequence among different species, the kit can be used to detect human, mouse and rat samples.
Product Categories/Family for BMP4 elisa kit	Developmental science; Bone metabolism

NCBI AND UNIPROT INFORMATION

NCBI GI #	1311542
NCBI GeneID	652
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
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/human-mouse-rat-elisa-kits/bone-morphogenetic-protein-4-bmp4/141189>