

Human BMP-5 ELISA Kit | BMP-5 elisa kit

BMP-5 Human ELISA Kit

CATALOG # AAA58980	REACTIVITY Human	APPLICATIONS ELISA
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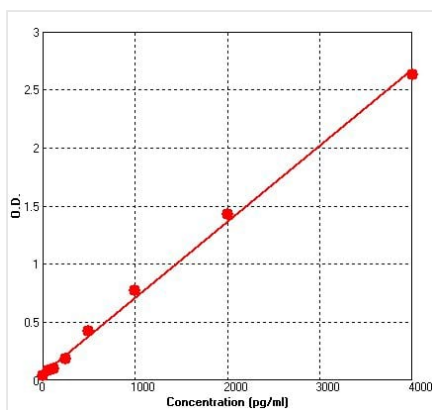
PRODUCT SYNONYMS

BMP-5; BMP-5 Human ELISA Kit; Human BMP-5; BMP-5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Detection Range	62.5 pg/ml-4000 pg/ml
Sensitivity	< 10pg/ml
Applicable Applications for BMP-5 elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for BMP-5 elisa kit	Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-BMP-5 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- BMP-5 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 BMP-5 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of BMP-5 can be calculated. Background: Bone morphogenetic protein 5 (BMP-5) is a member of the transforming growth factor-beta superfamily of regulatory molecules. Bone morphogenetic proteins were originally identified by the ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskelatal site, and known for their ability to induce bone and cartilage development. BMP-5 is expressed in the trabecular meshwork and optic nerve head and may have a role in the development and normal function. It is also expressed in the lung and liver. It may play a role in certain cancers. Like other BMP's BMP5 is inhibited by chordin and noggin. This protein also act as an important signaling molecule within the trabecular meshwork and optic nerve head, and may play a potential role in glaucoma pathogenesis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10835091
NCBI GeneID	653
NCBI Accession #	NP_066551.1
NCBI GenBank Nucleotide #	NM_021073.2
UniProt Accession #	P22003; Q9H547; Q9NTM5
Molecular Weight	51,737 Da
NCBI Official Full Name	bone morphogenetic protein 5 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 5
NCBI Official Symbol	BMP5
NCBI Protein Information	bone morphogenetic protein 5; BMP-5; bone morphogenenic protein-5
UniProt Protein Name	Bone morphogenetic protein 5
UniProt Gene Name	BMP5
UniProt Synonym Gene Names	BMP-5
UniProt Entry Name	BMP5_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.