

## Human BMP-5 ELISA Kit | BMP5 elisa kit

Human BMP-5 PicoKine ELISA Kit

CATALOG #  
**AAA45305**

REACTIVITY  
**Human**

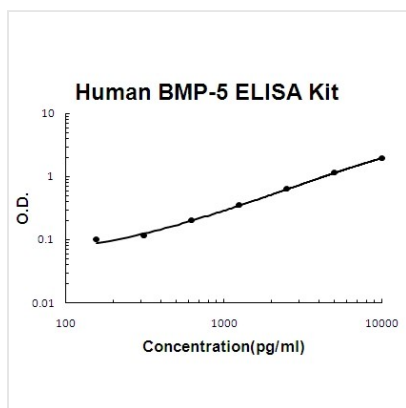
### PRODUCT SYNONYMS

BMP-5; Human BMP-5 PicoKine ELISA Kit; Bone morphogenetic protein 5; bone morphogenetic protein 5; Bmp5; BMP5\_HUMAN; BMP5 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                 |
| Specificity             | Natural and recombinant human BMP-5                                                                                                                   |
| Sequence Length         | 454                                                                                                                                                   |
| Samples                 | Cell culture supernates, serum and bone tissue                                                                                                        |
| Assay Type              | Sandwich                                                                                                                                              |
| Detection Range         | 156pg/ml-10,000pg/ml                                                                                                                                  |
| Sensitivity             | < 10pg/ml                                                                                                                                             |
| Intra-assay Precision   | Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.      |
| Inter-assay Precision   | Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision. |
| Preparation and Storage | Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)                            |

### IMAGES



**Standard Curve (Sample)**

Human BMP-5 PicoKine ELISA Kit standard curve

## ADDITIONAL INFORMATION

### Related Product Information for BMP5 elisa kit

**Principle of the assay:** human BMP-5 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for BMP-5 has been precoated onto 96-well plates. Standards(NSO, A317-H454) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for BMP-5 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 human BMP-5 amount of sample captured in plate.

**Background:** Bone morphogenetic protein 5 is a protein that in humans is encoded by the BMP5 gene.<sup>1,2,3</sup> The protein encoded by this gene is member of the TGFbeta superfamily. Bone morphogenetic proteins are known for their ability to induce bone and cartilage development. BMP5 may play a role in certain cancers. Like other BMP's BMP5 is inhibited by chordin and noggin. It 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. BMP-5 is mapped on human chromosome 6.4 The standard used in this kit is recombinant BMP-5 with the monomer molecular mass of 18KDa.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                   |
|----------------------------------|-------------------------------------------------------------------|
| NCBI GI #                        | 115075                                                            |
| NCBI GeneID                      | 653                                                               |
| UniProt Accession #              | P22003; Q9H547; Q9NTM5; B4E0Y4                                    |
| Molecular Weight                 | 47,670 Da                                                         |
| NCBI Official Full Name          | Bone morphogenetic protein 5                                      |
| NCBI Official Synonym Full Names | bone morphogenetic protein 5                                      |
| NCBI Official Symbol             | BMP5                                                              |
| NCBI Protein Information         | bone morphogenetic protein 5; BMP-5; bone morphogenetic protein-5 |
| UniProt Protein Name             | Bone morphogenetic protein 5                                      |
| UniProt Gene Name                | <b>BMP5</b>                                                       |
| 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.

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Online datasheet: <https://stage.aaabiotech.com/bmp5-human-elisa-kits/bmp-5/45305>