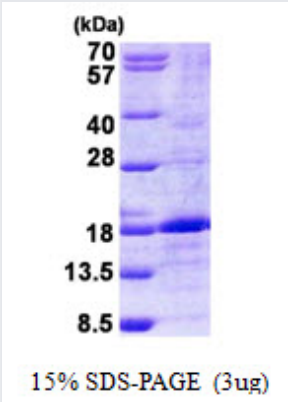
# BMP6 Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | BMP6, Recombinant Protein |
| **Full Product Name** | BMP6, 375-513aa, Human, His tag, E Coli |
| **Product Gene Name** | BMP6 recombinant protein |
| **Product Synonym Names** | Bone morphogenetic protein 6; VGR; VGR1 |
| **Sequence** | MGSSHHHHHH SSGLVPRGSH MGSHMSASSR RRQQSRNRST QSQDVARVSS ASDYNSSELK TACRKHELYV SFQDLGWQDW IIAPKGYAAN YCDGECSFPL NAHMNATNHA IVQTLVHLMN PEYVPKPCCA PTKLNAISVL YFDDNSNVIL KKYRNMVVRA CGCH |
| **Host** | E Coli |
| **Form/Format** | Liquid. In 10mM Sodium citrate buffer (pH 3.5) containing 10% glycerol. |
| **Purity/Purification** | > 85% by SDS-PAGE |
| **Concentration** | 0.25 mg/ml (determined by Bradford assay) (lot specific) |
| **Preparation and Storage** | Can be stored at 4 degree C short term (1-2 weeks).<br>For long term storage, aliquot and store at -20 degree C or -70 degree C.<br>Avoid repeated freezing and thawing cycles. |
| **Molecular Weight** | 18 kDa (164aa) confirmed by MALDI-TOF |
| **OMIM** | M60315 mRNA |
| **3D Structure** | ModBase 3D Structure for P22004 |
| **Antigen Species** | Human |
| **Tag Information** | His-tag |
| **Product Categories/Family for BMP6 recombinant protein** | Hormones & Cytokines |
| **Applications Tested/Suitable for BMP6 recombinant protein** | SDS-PAGE |
| **Related Product Information for BMP6 recombinant protein** | The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, BMP6 has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has lead to speculation of possible bone inductive activity. Recombinant human BMP6 protein, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques. |
| **Product References and Citations for BMP6 recombinant protein** | Ebisawa T, Tada K, et al. (1999). J Cell Sci. 112 (Pt 20):3519-27. |
| **Other Notes** | Small volumes of BMP6 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for BMP6 purchase** | MBS204953 is a recombinant protein targeting BMP6. Also known as BMP6, 375-513aa, Human, His tag, E Coli. Host: E Coli. |




**SDS-Page of BMP6 recombinant protein**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BMP6. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4502425 |
| **NCBI GeneID** | 654 |
| **NCBI Accession #** | NP_001709 |
| **UniProt Primary Accession #** | P22004 |
| **UniProt Secondary Accession #** | Q5TCP3 |
| **UniProt Related Accession #** | P22004 |
| **GenBank Nucleotide #** | NM_001718.5 |
| **NCBI Official Full Name** | bone morphogenetic protein 6 preproprotein |
| **NCBI Official Synonym Full Names** | bone morphogenetic protein 6 |
| **NCBI Official Symbol** | BMP6 |
| **NCBI Official Synonym Symbols** | VGR; VGR1 |
| **UniProt Protein Name** | Bone morphogenetic protein 6 |
| **UniProt Synonym Protein Names** | VG-1-related protein; VG-1-R; VGR-1 |
| **Protein Family** | Bone morphogenetic protein |
| **UniProt Gene Name** | BMP6 |
| **UniProt Synonym Gene Names** | VGR; BMP-6; VG-1-R; VGR-1 |
| **NCBI Protein Information** | bone morphogenetic protein 6 |
| **NCBI Summary for BMP6** | This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates a wide range of biological processes including iron homeostasis, fat and bone development, and ovulation. Differential expression of this gene may be associated with progression of breast and prostate cancer. Mutations in this gene may be associated with iron overload in human patients. [provided by RefSeq, Jul 2016] |
| **UniProt Comments for BMP6** | Induces cartilage and bone formation. |
| **Research Articles on BMP6** | **1.** Study demonstrated that the mesenchymal epithelial/myoepithelial potential of transdifferentiation of the luminal cells that make up the proliferative units is certified by the immunohistochemical expression of some BMP6 purely mesenchymal protein cells. |

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