

## Product datasheet for **AR50914PU-S**

### **BMP6 (375-513, His-tag) Human Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	BMP6 (375-513, His-tag) human recombinant protein, 20 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MGSSHHHHHH SSGLVPRGSH MGSMSASSR RRQSRNRST QSQDVARVSS ASDYNSSELK TACRKHELYV SFQDLGWQDW IAPKGYAAN YCDGECFPL NAHMNATNHA IVQTLVHLMN PEYVPKCCA PTKLNAISVL YFDDNSNVIL KKYRNMVRA CGCH
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	18 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>85% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 10 mM Sodium citrate buffer (pH 3.5) containing 10% glycerol.
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant human BMP6 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001709</a>
<b>Locus ID:</b>	654
<b>UniProt ID:</b>	<a href="#">P22004</a>
<b>Cytogenetics:</b>	6p24.3
<b>Synonyms:</b>	BMP-6, VGR, VGR1, Bone morphogenetic protein 6



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**Summary:**

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]

**Protein Families:**

Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway

**Protein Pathways:**

Hedgehog signaling pathway, TGF-beta signaling pathway

**Product images:**