

## Product datasheet for **AR09231PU-L**

### **BMP5 (317-454) Human Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	BMP5 (317-454) human recombinant protein, 0.5 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MAANKRKNQN RNKSSSHQDS SRMSSVGDYN TSEQKQACKK HELYVSFRDL GWQDWIIAPE GYAAFYCDGE CSFPLNAHMN ATNHAIQTL VHLMPDHVP KPCCAPTCLN AISVLYFDSD SNVILKKYRN MVRSCGCH
<b>Predicted MW:</b>	15.7 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95% 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>Endotoxin:</b>	< 1.0 EU per 1 µg of protein (determined by LAL method )
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant BMP5 was expressed in E.coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001316683</a>
<b>Locus ID:</b>	653
<b>UniProt ID:</b>	<a href="#">P22003</a> , <a href="#">A8K694</a>
<b>Cytogenetics:</b>	6p12.1



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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, which plays a role in bone and cartilage development. Polymorphisms in this gene may be associated with osteoarthritis in human patients. This gene is differentially regulated in multiple human cancers. This gene encodes distinct protein isoforms that may be similarly proteolytically processed. [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:**