

## Product datasheet for **AR51714PU-S**

### **BMP14 / GDF5 (376-495, His-tag) Human Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	BMP14 / GDF5 (376-495, His-tag) human recombinant protein, 0.1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MGSSHHHHHH SSSLVPRGSH MGSAPLANRQ GKRPSKNLKA RCSRKALHVN FKDMGWDDWI IAPLEYEAFH CEGLCFPLR SHLEPTNHAV IQTLMNSMDP ESTPPTCCVP TRLSPISILF IDSANNVYK QYEDMVVESC GCR
<b>Tag:</b>	His-tag
<b>Predicted MW:</b>	16 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>90% by SDS - PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	Recombinant mouse GDF5 protein, fused to His-tag at N-terminus, was expressed in E.coli.
<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_032135</a>
<b>Locus ID:</b>	14563
<b>UniProt ID:</b>	<a href="#">P43027</a> , <a href="#">Q8BRW9</a>
<b>Cytogenetics:</b>	2 77.26 cM
<b>Synonyms:</b>	b; BMP-14; bp; brp; CDMP-; Cdmp-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. This protein regulates the development of numerous tissue and cell types, including cartilage, joints, brown fat, teeth, and the growth of neuronal axons and dendrites. Mice with a mutation in this gene exhibit enhanced tooth enamel formation. [provided by RefSeq, Aug 2016]

**Product images:**