

## Product datasheet for **AR51563PU-S**

### **BMP8B (264-402, His-tag) Human Protein**

#### **Product data:**

Product Type:	Recombinant Proteins
Description:	BMP8B (264-402, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGS AVRPLRR RQPKKSNELP QANRLPGIFD DVHGSHGRQV CRRHELYVSF QDLGWLDWVI APQGYSAYYC EGECSPFLDS CMNATNHAIL QSLVHLMMPD AVPKACCAPT KLSATSVLYY DSSNNVILRK HRNMVVKACG CH
Tag:	His-tag
Predicted MW:	18.1 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human BMP8B protein, fused to His-tag at N-terminus, was expressed in E.coli.
Storage:	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.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001711</a>
Locus ID:	656
UniProt ID:	<a href="#">P34820</a>
Cytogenetics:	1p34.2
Synonyms:	BMP8; OP2



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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. The encoded protein stimulates thermogenesis in brown adipose tissue. Expression of this gene may be downregulated in pancreatic cancer. This gene may have arose from a gene duplication event and its gene duplicate is also present on chromosome 1. [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:**