

## Active Recombinant Human BMP10 Protein

Cat. No. BMP10-009H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** The mature recombinant human BMP-10 protein consists of 108 amino acids (317-424) without tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**ProteinLength** 317-424 a.a.

**Description** 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 the mature protein, which binds to the activin receptor-like kinase 1 (ALK1) and plays important roles in cardiovascular development including cardiomyocyte proliferation and regulation of heart size, closure of the ductus arteriosus, angiogenesis and ventricular trabeculation.

**Bio-activity** Measured by its ability to induce alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The ED50 for this effect is 15-60 ng/mL.

**Molecular Mass** 12.2 kDa

**Product-Related Proteins** 317-424

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<b>Endotoxin</b>	< 0.1 EU/μg of the protein as determined by the LAL method
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Storage</b>	At -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	PBS

## GENE INFORMATION

<b>Gene Name</b>	BMP10 bone morphogenetic protein 10 [ Homo sapiens (human) ]
<b>Official Symbol</b>	BMP10
<b>Synonyms</b>	BMP10; bone morphogenetic protein 10; bone morphogenetic protein 10
<b>Gene ID</b>	27302
<b>mRNA Refseq</b>	NM_014482
<b>Protein Refseq</b>	NP_055297
<b>MIM</b>	608748
<b>UniProt ID</b>	O95393

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