

Recombinant Mouse Bmp10 Protein, His/GST-tagged

Cat. No. Bmp10-265M **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|--|
| Product Overview | Recombinant Mouse Bmp10(Asn314~Arg421) fused with His/GST tag at N-terminal was expressed in E. coli. |
| Species | Mouse |
| Source | E.coli |
| ProteinLength | Asn314~Arg421 |
| 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. Homozygous knockout mice for this gene exhibit impaired heart development and embryonic lethality. |
| Form | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300. |
| Molecular Mass | 42.1kDa |
| Endotoxin | <1.0EU per 1ug (determined by the LAL method) |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

| | |
|-----------------------|--|
| Purity | > 97% |
| Applications | Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein |
| Stability | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| Storage | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months. |
| Reconstitution | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

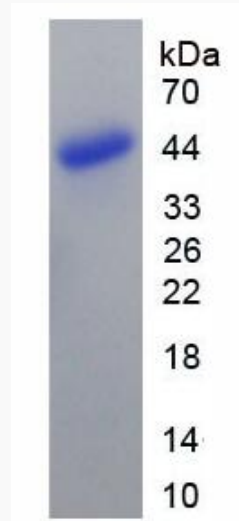
GENE INFORMATION

| | |
|------------------------|--|
| Gene Name | Bmp10 bone morphogenetic protein 10 [Mus musculus] |
| Official Symbol | Bmp10 |
| Synonyms | BMP10; bone morphogenetic protein 10; BMP-10; |
| Gene ID | 12154 |
| mRNA Refseq | NM_009756 |
| Protein Refseq | NP_033886 |
| UniProt ID | Q9R229 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA