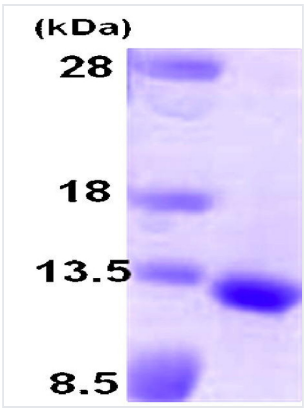
Bone Morphogenetic Protein 3b (GDF10) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Bone Morphogenetic Protein 3b (GDF10), Recombinant Protein
Full Product Name	Bone Morphogenetic Protein 3b, Recombinant, Human (BMP3b, Growth Differentiation Factor 10, GDF10)
Product Gene Name	GDF10 recombinant protein
Sequence	MQWDEPRVCS RRYLKVDFAD IGWNEWIISP KSFDAYYCAG ACEFPMPKIV RPSNHATIQS IVRAVGIIPG IPEPCCVPDK MNSLGVLFLD ENRNVVLKVY PNMSVDTCAC R
Form/Format	Supplied as a liquid in 10mM sodium citrate, pH 3.5, 10% glycerol.
Purity/Purification	Purified ~95% by SDS-PAGE.
Preparation and Storage	For long-term storage, aliquot and store at -20 degree C/-70 degree C. Aliquots are stable for at least 6 months at -20 degree C/-70 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	12.5kD(111aa)
Chromosome Location	Chromosome: 10; NC_000010.10 (48425789..48439166, complement). Location: 10q11.22
OMIM	601361
3D Structure	ModBase 3D Structure for P55107
Product Categories/Family for GDF10 recombinant protein	Growth Factors; Cytokines; Growth Factors-GDF
Related Product Information for GDF10 recombinant protein	GDF10 (Growth differentiation factor 10) is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. It is expressed in femur, brain, lung, skeletal, muscle, pancreas and testis, and it plays a role in head formation and may have multiple roles in skeletal morphogenesis. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues.
Other Notes	Small volumes of GDF10 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GDF10 purchase	MBS650617 is a recombinant protein targeting GDF10. Also known as Bone Morphogenetic Protein 3b, Recombinant, Human (BMP3b, Growth Differentiation Factor 10, GDF10).



SDS-Page of GDF10 recombinant protein
15% SDS-PAGE (3ug)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GDF10. It may not necessarily be applicable to this product.

NCBI GI #	4826740
NCBI GeneID	2662
NCBI Accession #	NP_004953.1
UniProt Primary Accession #	P55107
UniProt Secondary Accession #	Q5VSQ8; Q9UCX6
UniProt Related Accession #	P55107; Q8N6T2
GenBank Nucleotide #	NM_004962.3
NCBI Official Full Name	bone morphogenetic protein 3B
NCBI Official Synonym Full Names	growth differentiation factor 10
NCBI Official Symbol	GDF10
NCBI Official Synonym Symbols	BMP3B; BMP-3b
UniProt Protein Name	Bone morphogenetic protein 3B
UniProt Synonym Protein Names	Bone-inducing protein; BIP; Growth/differentiation factor 10
Protein Family	Growth/differentiation factor
UniProt Gene Name	GDF10
UniProt Synonym Gene Names	BMP3B
UniProt Entry Name	BMP3B_HUMAN
NCBI Protein Information	bone morphogenetic protein 3B; BIP; GDF-10; OTTHUMP00000019534; bone-inducing protein
NCBI Summary for GDF10	The protein encoded by this gene is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. The members of this family are regulators of cell growth and differentiation in both embryonic and adult tissues. Studies in mice suggest that the protein encoded by this gene plays a role in skeletal morphogenesis. [provided by RefSeq]

UniProt Comments for GDF10	Subunit structure: Homodimer or heterodimer Potential. Subcellular location: Secreted. Tissue specificity: Expressed in femur, brain, lung, skeletal muscle, pancreas and testis. Ref.1 Sequence similarities: Belongs to the TGF-beta family.
Research Articles on GDF10	**1.** Observational study of gene-disease association. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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