

BMP-13 (GDF6) active protein

Human BMP-13 (GDF6)

CATALOG # AAA79222	HOST E Coli	REACTIVITY Human
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PRODUCT SYNONYMS

BMP-13 (GDF6); Human BMP-13 (GDF6); GDF6; KFM; KFS; KFS1; KFSL; SGM1; BMP13; CDMP2; MCOP4; SCDO4; MCOPCB6; BMP-13 (GDF6) active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 95% by SDS-PAGE & HPLC analysis
Form/Format	Lyophilized
Sequence	TAFASRHGKR HGKKSRLRCS KKPLHVNFE LGWDDWIAP LEYEAYHCEG VCDPPLRSHL EPTNHAIQT LMNSMDPGST PPSCCVPTKL TPISILYIDA GNNVYKQYE DMVVESGCR
Sequence Length	454
Endotoxin level	< 0.1 ng /ug of protein (<1EU/ug)
Structural Information	disulphide-linked homodimer
Length (aa)	120
Biological Activity	The ED50 was determined by its ability to induce alkaline phosphatase production by ATDC-5 chondrogenic cells in the range of 2.0-3.0 ug/ml.
Reconstitution	Centrifuge vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Preparation and Storage	The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C. Avoid repeated freeze and thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for BMP-13 (GDF6) active protein	BMP-13 is expressed in hypertrophic chondrocytes during embryonic development of long bones. Continued postnatal expression of BMP-13 in articular cartilage suggests that it plays a regulatory role in the growth and maintenance of articular cartilage. Adenovirus-mediated BMP-13 gene transfer to rabbit bone marrow stem cells have been reported to augment periosteal repair of osteochondral defects. The functional form of BMP-13/CDMP-2 is a disulfide-linked homodimer of two 120 amino acid polypeptide chains. This 27.5 kDa protein is obtained by proteolytic processing of a biologically inactive precursor protein of 97.7 kDa. Recombinant human BMP-13/CDMP-2 is a 27.0 kDa homodimeric disulfide-linked protein consisting of two 120 amino acid polypeptide chains.
Product Categories/Family for BMP-13 (GDF6) active protein	Cytokines & Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	41529818
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NCBI GeneID	242316
NCBI Accession #	NP_038554.1
NCBI GenBank Nucleotide #	NM_013526.1
UniProt Accession #	P43028 ; Q70UT4
Molecular Weight	27.0 kDa
NCBI Official Full Name	growth/differentiation factor 6
NCBI Official Synonym Full Names	growth differentiation factor 6
NCBI Official Symbol	Gdf6
NCBI Official Synonym Symbols	BMP13; GDF16
NCBI Protein Information	growth/differentiation factor 6; GDF-6; growth differentiation factor 16; growth/differentiation factor 16
UniProt Protein Name	Growth/differentiation factor 6
UniProt Gene Name	Gdf6
UniProt Synonym Gene Names	Gdf-6; Gdf16; GDF-6
UniProt Entry Name	GDF6_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-human-active-protein/bmp-13-gdf6/79222>