

Bone Morphogenetic protein-13 Active Protein | BMP13 active protein

Recombinant Human Bone Morphogenetic protein-13

CATALOG #
AAA38030

HOST
E Coli

PRODUCT SYNONYMS

Bone Morphogenetic protein-13; Recombinant Human Bone Morphogenetic protein-13; BMP13 Human; Bone Morphogenetic protein-13 Human Recombinant; Growth Differentiation Factor 6; Growth/Differentiation Factor 16; Bone Morphogenetic Protein 13; BMP-13; BMP13; GDF-6; Klippel-Feil Malformation; Segmentation Syndrome 1; Klip-Feil Malformation; Klippel-Feil Syndrome; MCOPCB6; SCDO4; CDMP2; LCA17; MCOP4; GDF16; KFS1; KFSL; SGM1; KFM; KFS; GDF6; BMP13 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	BMP-13 protein was lyophilized from a 0.2 um filtered concentrated solution in 30% Acetonitrile and 0.1% TFA. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	TAFASRHGKR HGKKSRLRCS KKPLHVNFK E LGWDDWIIAP LEYEAYHCEG VCD FPLRSHL EPTNHAIQT LMNSMDPGST PPSCCVPTKL TPISILYIDA GNNVVYKQYE DMVVESCGCR
Sequence Length	455
Biological Activity	The ED50 as determined by inducing alkaline phosphatase production of murine ATDC5 cells is less than 2.0 ug/ml, corresponding to a specific activity of > 500IU/mg.
Solubility	It is recommended to reconstitute the lyophilized BMP13 in sterile 18M-cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Preparation and Storage	Lyophilized BMP13 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution BMP-13 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for BMP13 active protein	Introduction: Growth/differentiation factors (GDF1-GDF15) belong to the BMP family of TGF-beta superfamily proteins. These factors are produced as inactive preproteins which are subsequently cleaved and assembled into active secreted homodimers. BMP13 is a growth factor which controls proliferation and cellular differentiation in the retina and bone formation. BMP13 has a central role in regulating apoptosis during retinal development. GDF proteins are vital during embryonic development, particularly in the skeletal, nervous, and muscular systems. BMP13 gene mutations result in colobomata, which are congenital abnormalities in ocular development, and in Klippel-Feil syndrome (KFS), which is a congenital disorder of spinal segmentation. Description: BMP13 Human Recombinant produced in E Coli is a non-glycosylated disulfide linked homodimer containing 2 chains of 120 amino acids and having a molecular mass of 27.1kDa. The BMP-13 is purified by proprietary chromatographic techniques.
Product Categories/Family for BMP13 active protein	Cytokines and Growth Factors

NCBI AND UNIPROT INFORMATION

NCBI GI #	48475062
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NCBI GeneID	392255
NCBI Accession #	NP_001001557.1
NCBI GenBank Nucleotide #	NM_001001557.2
UniProt Accession #	Q6KF10; Q6PI58
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	KFM; KFS; KFS1; KFSL; SGM1; BMP13; CDMP2; LCA17; MCOP4; SCDO4; BMP-13; MCOPCB6
NCBI Protein Information	growth/differentiation factor 6
UniProt Protein Name	Growth/differentiation factor 6
UniProt Gene Name	GDF6
UniProt Synonym Gene Names	BMP13; GDF16; GDF-6; BMP-13
UniProt Entry Name	GDF6_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/e-coli-bmp13-active-protein/bone-morphogenetic-protein-13/38030>