

BMP13 active protein

BMP13 protein

CATALOG #
AAA75451

PRODUCT SYNONYMS

BMP13; BMP13 protein; BMP-13 protein; BMP-13; BMP 13; CDMP-2 protein; Cartilage-Derived Morphogenetic Protein-2 protein; Bone Morphogenetic protein 13 protein; GDF-6 protein; BMP 13 protein; BMP13 active protein

PRODUCT SPECIFICATIONS

Purity/Purification	> 95% by SDS-PAGE
Form/Format	Supplied lyophilized with no additives. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex.
Concentration	50ug per vial; lyophilized (varies by lot)
Sequence	Region of BM P13 protein corresponds to amino acids TAFAS RHGKRHGKKS RLRCSSKKPLH VNFKELGWDD WIIAPLEYEA YHCEGVCDFF LRSHLEPTNH AIIQTLNMSM DPGSTPPSCC VPTKLTPI SI LYIDAGNNVV YKQYEDMVVE SCGCR.
Protein Type	Recombinant
Biological Significance	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.
Bioactivity	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.
Endotoxin Levels	Endotoxin level is less than 0.1ng/ug of protein.
Source	E Coli
Species	Human
Grade	Recombinant
Biohazard	Use standard laboratory precautions when handling this material.
Preparation and Storage	Ships ambient or refrigerated. Upon receipt, store at 4 degree C or -20 degree C. After reconstitution, store at 4 degree C for one week, or aliquot and freeze at -20 degree C or -80 degree C. For extended storage, further dilute in a buffer containing a carrier protein and freeze.

ADDITIONAL INFORMATION

Related Product Information for BMP13 active protein	Purified recombinant Human BMP13 protein
Product Categories/Family for BMP13 active protein	Differentiation & Development

NCBI AND UNIPROT INFORMATION

Molecular Weight	27.5 kDa
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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/active-protein/bmp13/75451>