

Morphogenetic protein-4 Recombinant Protein | BMP 4 recombinant protein

Recombinant Human Bone Morphogenetic protein-4

CATALOG # AAA38174	HOST E Coli
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PRODUCT SYNONYMS

Morphogenetic protein-4; Recombinant Human Bone Morphogenetic protein-4; BMP 4 Human; Bone Morphogenetic Protein-4 Human Recombinant; BMP4; ZYME; BMP2B; BMP2B1; BMP 4 recombinant 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-4 was lyophilized from a 0.2?m filtered concentrated (1mg/ml) solution in 20mM Na2CO3 buffer, pH 9.0. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	SPKHHSQRAR KKNKNCRRHS LYVDFSDVGW NDWIVAPPGY QAFYCHGDCP FPLADHLNST NHAIVQTLVN SVNSSIPKAC CVPTELSAIS MLYLDEYDKV VLKNYQEMVV EGCGCR
Sequence Length	408
Solubility	It is recommended to reconstitute the lyophilized Bone Morphogenetic Protein-4 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 Bone Morphogenetic Protein-4 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution BMP4 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 BMP 4 recombinant protein	Description: Bone Morphogenetic Protein-4 Human Recombinant produced in E Coli is a monomeric, non-glycosylated, Polypeptide chain containing 116 amino acids and having a molecular mass of 13kDa. The BMP-4 is purified by proprietary chromatographic techniques. Introduction: The protein encoded by this gene is a member of the bone morphogenetic protein family which is part of the transforming growth factor-beta superfamily. The superfamily includes large families of growth and differentiation factors. Bone morphogenetic proteins were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. This particular family member plays an important role in the onset of endochondral bone formation in humans, and a reduction in expression has been associated with a variety of bone diseases, including the heritable disorder Fibrodysplasia Ossificans Progressiva. Alternative splicing in the 5' untranslated region of this gene has been described and three variants are described, all encoding an identical protein.
Product Categories/Family for BMP 4 recombinant protein	Cytokines and Growth Factors; Cytokines; Bone Morphogenetic Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	157276593
NCBI GeneID	652
NCBI Accession #	NP_001193.2

NCBI GenBank Nucleotide #	NM_001202.3
UniProt Accession #	P12644 ; Q9UM80
Molecular Weight	46,555 Da
NCBI Official Full Name	bone morphogenetic protein 4 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 4
NCBI Official Symbol	BMP4
NCBI Official Synonym Symbols	ZYME; BMP2B; OFC11; BMP2B1; MCOPS6
NCBI Protein Information	bone morphogenetic protein 4; BMP-2B; BMP-4; bone morphogenetic protein 2B
UniProt Protein Name	Bone morphogenetic protein 4
UniProt Gene Name	BMP4
UniProt Synonym Gene Names	BMP2B; DVR4; BMP-4; BMP-2B
UniProt Entry Name	BMP4_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.

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Online datasheet: <https://stage.aaabiotech.com/bmp4-recombinant-protein-e-coli/38174>