Bone Morphogenetic Protein 2 (BMP2) Rabbit Recombinant Protein

PRODUCT OVERVIEW

Product Name	Bone morphogenetic protein 2 (BMP2), Recombinant Protein
Full Product Name	Recombinant Rabbit Bone morphogenetic protein 2 (BMP2)
Product Gene Name	BMP2 recombinant protein
Sequence	QAKHKQRKRL KSSCKRHPLY VDFSDVGWND WIVAPPGYHA FYCHGECPFP LADHLNSTNH AIVQTLVNSV NSKIPKACCV PTELSAISML YLDENEKVVL KNYQDMVVEG CGCR
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	44,664 Da
Sequence Positions	282-395, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for O46564
Species	Rabbit
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BMP2 recombinant protein	This protein belongs to the transforming growth factor-beta (TGFB) superfamily. The encoded protein acts as a disulfide-linked homodimer and induces bone and cartilage formation.
Other Notes	Small volumes of BMP2 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 BMP2 purchase	MBS1263473 is a recombinant protein targeting BMP2. Also known as Recombinant Rabbit Bone morphogenetic protein 2 (BMP2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BMP2. It may not necessarily be applicable to this product.

NCBI GI #	130497270
NCBI GeneID	100009349
NCBI Accession #	NP_001076119.1
UniProt Primary Accession #	O46564
UniProt Related Accession #	O46564
GenBank Nucleotide #	NM_001082650.1

NCBI Official Full Name	bone morphogenetic protein 2
NCBI Official Symbol	BMP2
NCBI Official Synonym Symbols	BMP-2
UniProt Protein Name	Bone morphogenetic protein 2
Protein Family	Bone morphogenetic protein
UniProt Gene Name	BMP2
UniProt Synonym Gene Names	BMP-2; BMP-2
NCBI Protein Information	bone morphogenetic protein 2
UniProt Comments for BMP2	Induces cartilage and bone formation. Stimulates the differentiation of myoblasts into osteoblasts via the EIF2AK3-EIF2A- ATF4 pathway. BMP2 activation of EIF2AK3 stimulates phosphorylation of EIF2A which leads to increased expression of ATF4 which plays a central role in osteoblast differentiation. In addition stimulates TMEM119, which upregulates the expression of ATF4.
Research Articles on BMP2	**1.** The transfecting capability of a BMP-2 specific vector is examined and supports the idea that BMP-2 might diminish osseointegration and implant fixation.
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