BMP3 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	BMP3, Blocking Peptide
Full Product Name	BMP3 Blocking Peptide
Product Gene Name	BMP3 blocking peptide
Product Synonym Names	BMP-3; BMP-3A; bmp3; BMP3_HUMAN; BMP3A; Bone morphogenetic protein 3 (osteogenic); Bone morphogenetic protein 3; Bone morphogenetic protein 3A; Osteogenin
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	BMP3 peptide (MBS9616858) is used for blocking the activity of BMP3 antibody (MBS9601326)
Molecular Weight	53,372 Da
OMIM	112263
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for BMP3 blocking peptide	Blocking/Control
Related Product Information for BMP3 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of BMP3 blocking peptide 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 BMP3 purchase	MBS9616858 is a blocking peptide targeting BMP3.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BMP3. It may not necessarily be applicable to this product.

NCBI GI #	1047225540
NCBI GeneID	651
NCBI Accession #	NP_001192.3
UniProt Primary Accession #	P12645
UniProt Secondary Accession #	Q4VAS5
UniProt Related Accession #	P12645

GenBank Nucleotide #	NM_001201.3
NCBI Official Full Name	bone morphogenetic protein 3 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 3
NCBI Official Symbol	BMP3
NCBI Official Synonym Symbols	BMP-3A
UniProt Protein Name	Bone morphogenetic protein 3
UniProt Synonym Protein Names	Bone morphogenetic protein 3A; BMP-3A; Osteogenin
Protein Family	Bone morphogenetic protein
UniProt Gene Name	BMP3
UniProt Synonym Gene Names	BMP3A; BMP-3; BMP-3A
UniProt Entry Name	BMP3_HUMAN
NCBI Protein Information	bone morphogenetic protein 3
NCBI Summary for BMP3	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein suppresses osteoblast differentiation, and negatively regulates bone density, by modulating TGF-beta receptor availability to other ligands. [provided by RefSeq, Jul 2016]
UniProt Comments for BMP3	BMP3: Negatively regulates bone density. Antagonizes the ability of certain osteogenic BMPs to induce osteoprogenitor differentitation and ossification. Belongs to the TGF-beta family. Protein type: Secreted, signal peptide; Secreted; Cytokine Chromosomal Location of Human Ortholog: 4q21 Cellular Component: extracellular space Molecular Function: growth factor activity; cytokine activity; transforming growth factor beta receptor binding; receptor binding Biological Process: regulation of apoptosis; ossification; cell-cell signaling; regulation of MAPKKK cascade; cartilage development; positive regulation of transcription from RNA polymerase II promoter; skeletal development; cell development; growth
Research Articles on BMP3	**1.** Methylation level in stool decreases dramatically following colorectal cancer resection
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