BMP3 Blocking Peptide

PRODUCT OVERVIEW

Product Name	BMP3, Blocking Peptide
Full Product Name	BMP3 Peptide
Product Gene Name	BMP3 blocking peptide
Product Synonym Gene Name	BMP3A
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	BMP3 peptide (MBS3244539) is used for blocking the activity of BMP3 antibody (MBS3219674)
Molecular Weight	51
OMIM	112263
Product Categories/Family for BMP3 blocking peptide	Peptide
Applications Tested/Suitable for BMP3 blocking peptide	Western Blot (WB)
Related Product Information for BMP3 blocking peptide	This is a synthetic peptide designed for use in combination with anti-BMP3 antibody made Target Description: BMP3 belongs to the transforming growth factor-beta (TGFB) superfamily. Bone morphogenic protein, also known as osteogenin, induces bone formation.
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	MBS3244539 is a blocking peptide targeting BMP3. Also known as BMP3 Peptide. Reactive in Human.

ADDITIONAL DETAILS

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

NCBI GI #	126507087
NCBI GeneID	651
NCBI Accession #	NP_001192.2
UniProt Primary Accession #	P12645
UniProt Related Accession #	P12645
GenBank Nucleotide #	NM_001201.2
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.** This study demonstrated that there was a significantly higher frequency of BMP3 methylated DNA in plasma in patients with polyps versus healthy controls with a sensitivity and specificity of 40 and 94%, respectively.
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