

Recombinant Human BMP3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BMP3-2438H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

BMP3 MS Standard C13 and N15-labeled recombinant protein (NP_001192) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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.

Molecular Mass

53.41 kDa

AA Sequence

MAGASRLLFLWLGCFCVSLAQGERPKPPFPELRKAVPGDRTAGGGPDSELQPQDK
VSEHMLRLYDRYSTVQAARTPGSLEGGSQPWRPRLREGNTVRSFRAAAAETLER
KGLYIFNLTSLTSENILSATLYFCIGELGNISLSCPVSGGCSHHAQRKHIQIDLSAWTL
KFSRNQSQLLGHLSVDMAKSHRDIMSWLSKDITQFLRKAKENEEFLIGFNITSKGRQ
LPKRRLPFPEPYILVYANDAAISEPESVSSLQGHRNFPTGTVPKWDSHIRAALSIER
RKKRSTGVLLPLQNNELPGAIEYQYKKDEVWEERKPYKTLQAQAPEKSKNKKKQQRK

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GPHRKSQTLQFDEQTLKKARRKQWIEPRNCARRYLKVDFADIGWSEWIISPKSFDA
 YYCSGACQFPMPKSLKPSNHATIQSIVRAVGVVPGIPEPCCVPEKMSSLSILFFDENK
 NVVLKVYPNMTVESACRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [BMP3 bone morphogenetic protein 3 \[Homo sapiens \(human\) \]](#)

Official Symbol [BMP3](#)

Synonyms BMP3; bone morphogenetic protein 3; bone morphogenetic protein 3 (osteogenic); osteogenin; BMP-3; bone morphogenetic protein-3; bone morphogenetic protein 3A; BMP-3A;

Gene ID [651](#)

mRNA Refseq [NM_001201](#)

Protein Refseq [NP_001192](#)

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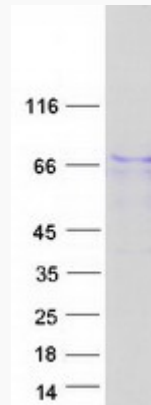
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MIM 112263

UniProt ID P12645

SDS-PAGE



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