

Active Recombinant Human BMP3 Protein

Cat. No. BMP3-012H Lot. No. (See product label)

SPECIFICATION

Product Overview	The mature recombinant human BMP-3 protein consists of 110 amino acids (363-472) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	363-472 a.a.
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.
Bio-activity	Measured by its ability to inhibit BMP-2-induced activity in MC3T3-E1 mouse preosteoblast cells. 30 µg/mL of hBMP-3 will antagonize hBMP-2 (0.25 µg/mL) induction of alkaline phosphatase in MC3T3E1 cells by >50%.
Molecular Mass	12.5 kDa
Product-Related Proteins	363-472

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Endotoxin	< 0.1 EU/μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	BMP3 bone morphogenetic protein 3 [Homo sapiens (human)]
Official Symbol	BMP3
Synonyms	BMP3; bone morphogenetic protein 3; BMP-3A; bone morphogenetic protein 3; bone morphogenetic protein 3 (osteogenic); bone morphogenetic protein 3A; osteogenin
Gene ID	651
mRNA Refseq	NM_001201
Protein Refseq	NP_001192
MIM	112263
UniProt ID	P12645

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