

Recombinant Human BMP8B, His-tagged

Cat. No. BMP8B-250H Lot. No. (See product label)

SPECIFICATION

Product Overview	BMP8B,264-402aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	264-402aa
Description	<p>The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has led to speculation of possible bone inductive activity. Recombinant human BMP8B protein, fused to His-tag at N-terminus, was expressed in E.coli.</p>
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	18.1 kDa (162aa)
AA Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGS AVRPLRR RQPKKSNELP QANRLPGIFD DVHGS HGRQV CRRHELYVSF QDLGWLDWVI APQGY SAYYC EGEC SFPLDS CMNATNHAIL QSLVHLMMPD AVPKACCAPT KLSATSVLYY DSSNNVILRK</p>

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	HRNMVVKACG CH
Purity	>90% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	BMP8B bone morphogenetic protein 8b [Homo sapiens]
Official Symbol	BMP8B
Synonyms	BMP8B; bone morphogenetic protein 8b; BMP8, bone morphogenetic protein 8 (osteogenic protein 2); bone morphogenetic protein 8B; OP 2; osteogenic protein 2; BMP-8; BMP-8B; bone morphogenetic protein 8 (osteogenic protein 2); dJ118J21.1 (bone morphogenetic protein 8 (osteogenic protein 2)); OP2; BMP8; MGC131757;
Gene ID	656
mRNA Refseq	NM_001720
Protein Refseq	NP_001711
MIM	602284
UniProt ID	P34820
Chromosome Location	1p35-p32

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Pathway

Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;

Function

cytokine activity; growth factor activity;

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