Recombinant Human bone morphogenetic protein 6, His-tagged

Cat. No. BMP6-575H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BMP6, 375-513aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	375-513 a.a.
Description	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, BMP6 has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has lead to speculation of possible bone inductive activity. Recombinant human BMP6 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 10mM Sodium citrate buffer (pH 3.5) containing 10% glycerol.
Molecular Mass	18 kDa (164aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMSASSR RRQQSRNRST QSQDVARVSS ASDYNSSELK TACRKHELYV SFQDLGWQDW IIAPKGYAAN YCDGECSFPL

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	NAHMNATNHA IVQTLVHLMN PEYVPKPCCA PTKLNAISVL YFDDNSNVIL KKYRNMVVRA CGCH
Purity	>85% 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	0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	BMP6 bone morphogenetic protein 6 [Homo sapiens]
Official Symbol	BMP6
Synonyms	BMP6; bone morphogenetic protein 6; vegetal related growth factor (TGFB related) , VGR; VGR1; BMP-6; VGR-1; VG-1-R; VG-1-related protein; Vg1-related sequence; vegetal-related (TGFB related) cytokine; vegetal related growth factor (TGFB-related); VGR;
Gene ID	654
mRNA Refseq	NM_001718
Protein Refseq	NP_001709
MIM	112266
UniProt ID	P22004

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Chromosome Location	6p24-p23
Pathway	BMP receptor signaling, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; Id Signaling Pathway, organism-specific biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem;
Function	BMP receptor binding; cytokine activity; growth factor activity; protein heterodimerization activity;

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