

Recombinant Human Bone Morphogenetic Protein 6

Cat. No. BMP6-42H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP6 was expressed in E. coli.
Species	Human
Source	E.coli
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, 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 lead to speculation of possible bone inductive activity.
Molecular Mass	monomer (15 kDa), dimer (30 kDa)
Purity	≥98% as determined by SDSPAGE and HPLC.
Physical Form	Sterile filtered and lyophilized with no additives
Appearance	Lyophilized protein
Endotoxin Level	<0.1 ng/μg

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Biological Activity	Recombinant human BMP-6 is biologically active. The ED50 as determined by dose-dependent induction of alkaline phosphatase activity with C2C12 cells is in the range of 2-12 g/ml.
Reconstitution	Reconstitute to a concentration of 0.1-1.0 mg/ml in sterile 20 mM acetic acid. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.
Storage	-20°C
OfficialSymbol	BMP6
GENE INFORMATION	
Gene Name	BMP6 bone morphogenetic protein 6 [Homo sapiens]
Synonyms	BMP6; bone morphogenetic protein 6; VGR; VGR1; vegetal related growth factor (TGFB- related); Bone morphogenetic protein 6; VG-1-related protein; VG-1-R; VGR-1; BMP-6; Vg1-related sequence; vegetal-related (TGFB related) cytokine
Gene ID	654
mRNA Refseq	NM_001718
Protein Refseq	NP_001709
MIM	112266
UniProt ID	P22004
Chromosome	6p24-p23

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Location	
Pathway	BMP receptor signaling; Endochondral Ossification; Id Signaling Pathway; TGF-beta signaling pathway
Function	cytokine activity; growth factor activity; BMP receptor binding; protein heterodimerization activity
Rendering based onPDB 2QCW.	