

Recombinant Human Bone Morphogenetic Protein 6

Cat. No. BMP6-1871H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanBMP-6 contains a mixture of monomer (15 kDa), dimer (30 kDa), and multimers.The dimer is an active polypeptide chain containing 2X142 amino acidresidues.
Species	Human
Source	E.coli
Description	BMPs (bonemorphogenetic proteins) belong to the TGF- β superfamily of structurallyrelated signaling proteins. As implied by their name, BMPs promote andregulate bone development, growth, remodeling and repair, in both prenataldevelopment and postnatal growth of eye, heart, kidney, skin, and othertissues.
Form	Sterile filtered andlyophilized without additives.
Purity	>98% by SDS-PAGEand HPLC analyses.
MolecularWeight	Mixture of monomer(15 kDa), dimer (30 kDa), and multimers.
Endotoxin Level	< 0.1 ng/ μ g ofprotein
Biological Activity	The ED50as determined by dose-dependent induction of alkaline phosphatase activitywith C2C12 cells is in the range of 2-12 μ g/ml.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Reconstitution	Centrifuge vial prior to opening. 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	The lyophilized protein is best stored desiccated below 0°C. Reconstituted BMP-4 should be stored in working aliquots at -20°C. For long-term storage, it is recommended to add a carrier protein (0.1% BSA). Avoid repeated freeze-thaw cycles.
Official Symbol	BMP6
Pathways	BMP receptor signaling; Endochondral Ossification; Hedgehog signaling pathway; TGF-beta signaling pathway

GENE INFORMATION

Gene Name	BMP6 bone morphogenetic protein 6 [Homo sapiens]
Synonyms	BMP6; bone morphogenetic protein 6; VGR; VGR1; bone morphogenetic protein 6; BMP-6; VGR-1; VG-1-R; OTTHUMP00000016006; VG-1-related protein; Vg1-related sequence; vegetal-related (TGFB related) cytokine; vegetal related growth factor (TGFB-related); Bone morphogenetic protein 6
Gene ID	654
mRNA Refseq	NM_001718
Protein Refseq	NP_001709
MIM	112266

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UniProt ID	P22004
Chromosome Location	6p24-p23
Function	BMP receptorbinding; cytokine activity; growth factor activity; proteinheterodimerization activity
Rendering based onPDB 2QCW.	

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