Recombinant Human BMP6

Cat. No. BMP6-41H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BMP6 protein was expressed in HEK293 Cells and purified by using conventional chromatography techniques.
Species	Human
Source	HEK293
Description	TGF beta family members are key modulators of cell proliferation, differentiation, matrix synthesis, and apoptosis. As implied by their name, BMPs initiate, promote, and regulate the development, growth and remodeling of bone and cartilage. In addition to this role, BMPs are also involved in prenatal development and postnatal growth, remodeling and maintenance of a variety of other tissues and organs. Increasing evidence indicates that BMP-Smad signaling has a tumor suppressing activity and that BMPs can inhibit tumor growth. BMP-6 is abnormally expressed in breast cancer cell lines; however, its function in promoting breast cancer development is unknown.
Predicted Molecular Mass	26.2 kDa
Amino Acid Sequence	Region of BMP6 protein corresponding to amino acids VSSASDYNSS ELKTACRKHE LYVSFQDLGW QDWIIAPKGY AANYCDGECS FPLNAHMNAT NHAIVQTLVH LMNPEYVPKP CCAPTKLNAI SVLYFDDNSN VILKKYRNMV VRACGCH.
Formulation	Lyophilized from 10mM Tris, pH 9.0. Reconstitute in water to a concentration of 0.1-

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

	1.0 mg/ml.
Purity	>95% pure by SDS PAGE and HPLC
Endotoxin Level	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Biological Activity	Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 this effect is 0.03-0.06 ug/ml.
Applications	SDS-PAGE
Stability & Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

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

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UniProt ID	P22004
Chromosome Location	6p24-p23
Pathway	Cytokine-cytokine receptor interaction; Hedgehog signaling pathway; TGF-beta signaling pathway
Function	cytokine activity; growth factor activity; protein binding

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