

Recombinant Human BMP8B, His-tagged

Cat. No. BMP8B-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP8B encoding the human bone morphogenetic protein-8B (Leu25-Phe349) was recombined with Hexa-histidine tag at the N-Terminus. That was expressed in <i>E.Coli</i> , and purified by Ni-NTA column. MW = 35.8KD.
Species	Human
Source	E.coli
ProteinLength	25-349 a.a.
Description	Bone morphogenetic protein 8B is a protein that in humans is encoded by the BMP8B gene. The protein encoded by this gene is a member of the TGF- β superfamily. It has close sequence homology to BMP7 and BMP5 and is believed to play a role in bone and cartilage development. It has been shown to be expressed in the hippocampus of murine embryos. The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth.
Amino Acid Sequence	human bone morphogenetic protein 8B (Leu25-Phe349). 25LRPPPGCPQR RLGARERRDV QREILAVLGL PGRPRPRAPPAASRLPASAP LFMLDLYHAM AGD DDEDGAP AERRLGRADLVMSFVNMVER DRALGHQEPH WKEFRFDLTQ IPA GE AVTAAEFRIYKVP SI HLLNRTLHVS MFQVVQE QSN RESD LFF LDL QTL RAG DEGW LVLDVTAASD CWLLKRHKDL GLRL YVETED GETWT GWGWT KDS RLQ MWKL RLSRTPWVLS LHAPGPAQAPAERPLLCLLQ GHCPAS PSPI RT PRAVRPLR RRQPKKSNELPQANRLPGIF DDVRGSHGRQ VCRR HELYVS DSPCF 349.

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Application	Cell biology.
Purity	>95% in SDS gel.
Formulation	Lyophilized 100 µg human bone morphogenetic protein-8B in 50 µl of TBS (20 mM Tris, 50mM NaCl,pH8.0). Carry free.
Reconstitution	Add 500 µl deionized water to the vial to prepare a working stock solution at 200 µg/mL . Allow to set at least 30 minutes at 4° C, mix well.
Storage	Store lyophilized protein at -20 °C or -70 °C. Lyophilized protein is stable for up to 6 months from date of receipt at - 20 °C to -70 °C. Upon reconstitution, this protein can be stored at -20 °C for a few weeks or at -70 °C in a manual defrost freezer for long term storage (six months). Aliquot reconstituted protein to avoid repeated freezing / thawing cycles.
Pathways	Cytokine-cytokine receptor interaction; Hedgehog signaling pathway; TGF-beta signaling pathway

GENE INFORMATION

Gene Name	BMP8B bone morphogenetic protein 8b [Homo sapiens]
Synonyms	bone morphogenetic protein 8b; OP2; BMP8; MGC131757; BMP8B; osteogenic protein 2; bone morphogenetic protein 8 (osteogenic protein 2); dJ118J21.1 (bone morphogenetic protein 8 (osteogenic protein 2)); dJ118J21.1 (bone morphogenetic protein 8 (osteogenic protein 2)); OP-2I; BMP-8; BMP-8B; OTTHUMP00000010836; Osteogenic protein 2; bone morphogenetic protein 8b
Gene ID	656

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mRNA Refseq	NM_001720
Protein Refseq	NP_001711
MIM	602284
UniProt ID	P34820
Chromosome Location	1p35-p32
Function	cytokine activity; growth factor activity protein binding

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