

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 *E.Coli*, 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 DEG W 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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