

## Recombinant Human BMP8B, His-tagged

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

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b>    | 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.                                                                                                                                                                                                                                                      |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>       | 25-349 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>         | 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- $\beta$ 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. |
| <b>Amino Acid Sequence</b> | human bone morphogenetic protein 8B (Leu25-Phe349). 25LRPPPGCPQR<br>RLGARERRDV QREILAVLGL PGRPRPRAPPAASRLPASAP LFMLDLYHAM AGD<br>DDEDGAP AERRLGRADLVMSFVNMVER DRALGHQEPH WKEFRFDLTQ IPA GE<br>AVTAAEFRIYKVP SI HLLNRTLHVS MFQVVQE QSN RESD LFF LDL QTL RAG<br>DEGW LVLDVTAASD CWLLKRHKDL GLRL YVETED GETWT GWGWT KDS RLQ<br>MWKL RLSRTPWVLS LHAPGPAQAPAERPLLCLLQ GHCPAS PSPI RT PRAVRPLR<br>RRQPKKSNELPQANRLPGIF DDVRGSHGRQ VCRR HELYVS DSPCF 349.                                       |

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| <b>Application</b>    | Cell biology.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>         | >95% in SDS gel.                                                                                                                                                                                                                                                                                                                                                             |
| <b>Formulation</b>    | Lyophilized 100 µg human bone morphogenetic protein-8B in 50 µl of TBS ( 20 mM Tris, 50mM NaCl,pH8.0 ). Carry free.                                                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | 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.                                                                                                                                                                                                                                |
| <b>Storage</b>        | 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. |
| <b>Pathways</b>       | Cytokine-cytokine receptor interaction; Hedgehog signaling pathway; TGF-beta signaling pathway                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

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| <b>Gene Name</b> | <a href="#">BMP8B bone morphogenetic protein 8b [ Homo sapiens ]</a>                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>  | 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 |
| <b>Gene ID</b>   | <a href="#">656</a>                                                                                                                                                                                                                                                                                                                                                      |

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

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