

## Recombinant Human BMP8B, His-tagged

**Cat. No.** BMP8B-250H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | BMP8B,264-402aa, Human, His tag, E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 264-402aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | <p>The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has led to speculation of possible bone inductive activity. Recombinant human BMP8B protein, fused to His-tag at N-terminus, was expressed in E.coli.</p> |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 18.1 kDa (162aa)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AA Sequence</b>      | <p>MGSSHHHHHH SSGLVPRGSH MGS AVRPLRR RQPKKSNELP QANRLPGIFD<br/>           DVHGS HGRQV CRRHELYVSF QDLGWLDWVI APQGYSAYYC EGECSFPLDS<br/>           CMNATNHAIL QSLVHLMMPD AVPKACCAPT KLSATSVLYY DSSNNVILRK</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|                            |                                                                                                                                                                                                                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | HRNMVVKACG CH                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>              | >90% by SDS - PAGE                                                                                                                                                                                                                                                                                                      |
| <b>Storage</b>             | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                      |
| <b>Concentration</b>       | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                  |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Name</b>           | BMP8B bone morphogenetic protein 8b [ Homo sapiens ]                                                                                                                                                                                                                                                                    |
| <b>Official Symbol</b>     | BMP8B                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>            | BMP8B; bone morphogenetic protein 8b; BMP8, bone morphogenetic protein 8 (osteogenic protein 2); bone morphogenetic protein 8B; OP 2; osteogenic protein 2; BMP-8; BMP-8B; bone morphogenetic protein 8 (osteogenic protein 2); dJ118J21.1 (bone morphogenetic protein 8 (osteogenic protein 2)); OP2; BMP8; MGC131757; |
| <b>Gene ID</b>             | 656                                                                                                                                                                                                                                                                                                                     |
| <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                                                                                                                                                                                                                                                                                                                |

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|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem; TGF-beta signaling pathway, organism-specific biosystem; TGF-beta signaling pathway, conserved biosystem; |
| <b>Function</b> | cytokine activity; growth factor activity;                                                                                                                                                                          |

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