

# Recombinant Human BMP4 Protein, GMP Grade, Animal-Free

**Cat. No.** BMP4-26HG    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                       |
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| <b>Product Overview</b> | GMP Recombinant Human BMP4 protein with out tag was expressed in E. coli and manufactured using animal-derived component free materials. E.coli-derived Human BMP-4 is a fully active homodimeric protein consisting of two 107 amino acid subunits, which correspond to amino acids 303-408 of the full length BMP-4 precursor, as well as an N-terminal Methionine. |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 303-408 a.a.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | Bone morphogenetic proteins (BMPs) constitute a subfamily within the TGF- $\beta$ superfamily of structurally related signaling proteins. Members of this superfamily are widely distributed throughout the body, and are involved in diverse physiological processes during both pre- and postnatal life.                                                            |
| <b>Molecular Mass</b>   | 24.2 kDa                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MKKNKNCRRHSLYVDFSDVGWNDWIVAPPGYQAFYCHGDCPFPLADHLNSTNHAI<br>VQTLVNSVNSSIPKACCVPTELSAISMLYLDEYDKVVLKNYQEMVVEGCGCR                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | $\geq 98\%$ by SDS-PAGE gel and HPLC analyses.                                                                                                                                                                                                                                                                                                                        |
| <b>Full Length</b>      | Full L.                                                                                                                                                                                                                                                                                                                                                               |

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## GENE INFORMATION

|                 |                                                                                                                       |
|-----------------|-----------------------------------------------------------------------------------------------------------------------|
| Gene Name       | BMP4 bone morphogenetic protein 4 [ Homo sapiens (human) ]                                                            |
| Official Symbol | BMP4                                                                                                                  |
| Synonyms        | BMP4; bone morphogenetic protein 4; BMP2B; BMP-4; BMP-2B; bone morphogenetic protein 2B; ZYME; OFC11; BMP2B1; MCOPS6; |
| Gene ID         | 652                                                                                                                   |
| mRNA Refseq     | NM_001202                                                                                                             |
| Protein Refseq  | NP_001193                                                                                                             |
| MIM             | 112262                                                                                                                |
| UniProt ID      | P12644                                                                                                                |

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