

## Recombinant Human BMP1 protein, His & GST-tagged

Cat. No. BMP1-662H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human BMP1 aa. (Glu610~Ser843 (Accession # P13497) ) fused with N-terminal His & GST tag was produced in E. coli cells.                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Glu610~Ser843                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | This gene encodes a protein that is capable of inducing formation of cartilage in vivo. Although other bone morphogenetic proteins are members of the TGF-beta superfamily, this gene encodes a protein that is not closely related to other known growth factors. This gene is expressed as alternatively spliced variants that share an N-terminal protease domain but differ in their C-terminal region. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 58.5kDa                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Characteristic</b>   | The isoelectric point is 6.1.                                                                                                                                                                                                                                                                                                                                                                               |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP                                                                                                                                                                                                                                                                                                             |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                          |
| <b>Storage buffer</b> | Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.                                                                                                                                                                                                                                                |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                           |

## GENE INFORMATION

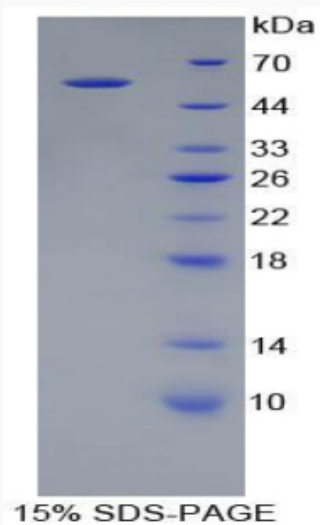
|                        |                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | BMP1 bone morphogenetic protein 1 [ Homo sapiens (human) ]                                                                                                                        |
| <b>Official Symbol</b> | BMP1                                                                                                                                                                              |
| <b>Synonyms</b>        | BMP1; bone morphogenetic protein 1; PCP; TLD; OI13; PCP2; PCOLC; bone morphogenetic protein 1; mammalian tolloid protein; procollagen C-endopeptidase; procollagen C-proteinase 3 |
| <b>Gene ID</b>         | 649                                                                                                                                                                               |
| <b>mRNA Refseq</b>     | NM_001199.3                                                                                                                                                                       |
| <b>Protein Refseq</b>  | NP_001190.1                                                                                                                                                                       |
| <b>UniProt ID</b>      | P13497                                                                                                                                                                            |

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SDS-PAGE



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