

## Recombinant Human BMP1 protein, GST-tagged

**Cat. No.** BMP1-26314TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human BMP1(747 a.a. - 845 a.a.) fused with GST tag at N-terminal was expressed in Wheat germ.                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 747-845 a.a.                                                                                                                                                                                                                                                                                                                                                                                                |
| <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>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 36.63 kDa                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | CDHKVTSTSGTITSPNWPDKYPSKKECTWAISSTPGHRVKLTFMEMDIESQPECAY<br>DHLEVFDGRDAKAPVLGRF CGSKKPEPVLATGSRMFLRFYSDN                                                                                                                                                                                                                                                                                                    |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);<br>Antibody Production; Protein Array                                                                                                                                                                                                                                                                                              |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Notes</b>               | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                                                  |
| <b>Storage</b>             | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Name</b>           | BMP1 bone morphogenetic protein 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b>     | BMP1                                                                                                                                                                                                                                                                                                                                    |
| <b>Synonyms</b>            | BMP1; bone morphogenetic protein 1; PCOLC, procollagen C endopeptidase; procollagen C endopeptidase; procollagen C-proteinase; mammalian tolloid protein; procollagen C-endopeptidase; PCP; TLD; PCP2; PCOLC; FLJ44432;                                                                                                                 |
| <b>Gene ID</b>             | 649                                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>         | NM_006129                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>      | NP_006120                                                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>                 | 112264                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>          | P13497                                                                                                                                                                                                                                                                                                                                  |
| <b>Chromosome Location</b> | 8p21                                                                                                                                                                                                                                                                                                                                    |
| <b>Pathway</b>             | Adipogenesis, organism-specific biosystem; HDL-mediated lipid transport, organism-specific biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem; Lipoprotein metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific |

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biosystem;

**Function**

calcium ion binding; cytokine activity; growth factor activity; metal ion binding; metalloendopeptidase activity; metalloendopeptidase activity; metallopeptidase activity; peptidase activity; peptidase activity; zinc ion binding;

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