

## Recombinant Human BMP2

**Cat. No.** BMP2-26315TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant Human BMP2. A 26 kDa homodimeric protein consisting of two 115 amino acid polypeptide chains.                                                                                                                                                       |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                           |
| <b>Source</b>             | E.coli                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>      | 283-396 aa                                                                                                                                                                                                                                                      |
| <b>Description</b>        | The protein encoded by this gene belongs to the transforming growth factor-beta (TGFB) superfamily. The encoded protein acts as a disulfide-linked homodimer and induces bone and cartilage formation.                                                          |
| <b>Tissue specificity</b> | Particularly abundant in lung, spleen and colon and in low but significant levels in heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, ovary and small intestine.                                                                     |
| <b>Form</b>               | Lyophilised:Centrifuge the vial prior to opening.Reconstitute in water containing BSA (50ug of BSA per 1ug of protein) to a concentration of 0.1-1.0 mg/ml.This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C f |
| <b>Purity</b>             | >95% by SDS-PAGE                                                                                                                                                                                                                                                |
| <b>Storage buffer</b>     | Preservative: NoneEndotoxin level is less than 0.1 ng per µg (1EU/µg).                                                                                                                                                                                          |

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|                                 |                                                                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.                                                |
| <b>Sequences of amino acids</b> | MQAKHKQRKR LKSSCKRHPL YVDFSDVGWN DWIVAPPGYH AFYCHGECPP<br>PLADHLNSTN HAIVQTLVNS VNSKIPKACC VPTELSAISM LYLDENEKVV<br>LKNYQDMVVE GCGCR |
| <b>Sequence Similarities</b>    | Belongs to the TGF-beta family.                                                                                                      |

## GENE INFORMATION

|                            |                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | BMP2 bone morphogenetic protein 2 [ Homo sapiens ]                                                                                                                  |
| <b>Official Symbol</b>     | BMP2                                                                                                                                                                |
| <b>Synonyms</b>            | BMP2; bone morphogenetic protein 2; BMP2A;                                                                                                                          |
| <b>Gene ID</b>             | 650                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_001200                                                                                                                                                           |
| <b>Protein Refseq</b>      | NP_001191                                                                                                                                                           |
| <b>MIM</b>                 | 112261                                                                                                                                                              |
| <b>Uniprot ID</b>          | P12643                                                                                                                                                              |
| <b>Chromosome Location</b> | 20p12                                                                                                                                                               |
| <b>Pathway</b>             | Adipogenesis, organism-specific biosystem; Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Cytokine-cytokine receptor |

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interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;

**Function**

BMP receptor binding; SMAD binding; activin receptor activity, type II; cytokine activity; growth factor activity;

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