

## Active GMP Recombinant Human BMP-7 Protein

Cat. No. BMP7-01HG    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b> | Recombinant human BMP7 protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer, which plays a role in bone, kidney and brown adipose tissue development. Additionally, this protein induces ectopic bone formation and may promote fracture healing in human patients. |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Endotoxin</b>        | <20 EU/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | >2.0 x 10 <sup>4</sup> IU/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage Buffer</b>   | 10mM Phosphate-Buffered Saline (pH 7.2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>      | Stable storage at 4°C for 7-10 days; for long-term storage, please store at -20°C after dispensing.                                                                                                               |
| <b>Sterility</b>    | Sterility                                                                                                                                                                                                         |
| <b>Instructions</b> | It is recommended that lyophilized GMP rhBMP7 be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 µg/ml, pending further dilution to working concentration. |

## GENE INFORMATION

|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Gene Name</b>       | BMP7 bone morphogenetic protein 7 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | BMP7                                                       |
| <b>Synonyms</b>        | OP-1                                                       |
| <b>Gene ID</b>         | 655                                                        |
| <b>mRNA Refseq</b>     | NM_001719.3                                                |
| <b>Protein Refseq</b>  | NP_001710.1                                                |
| <b>UniProt ID</b>      | P18075                                                     |
| <b>MIM</b>             | 112267                                                     |

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