

## Active GMP Recombinant Human BMP4 Protein

Cat. No. BMP4-135HG Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human BMP4, Ser293-Arg408, was produced in NS0 cell under cGMP guidelines.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	293-408 a.a.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA.
<b>Bio-activity</b>	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. Binnerts, M.E. et al. (2004) Biochem. Biophys. Res. Commun. 315(2):272.
<b>Molecular Mass</b>	Predicted Molecular Mass: 13 (monomer) kDa SDS-PAGE: 22-25 kDa, reducing conditions; 37-41 kDa, non-reducing conditions
<b>N-terminal Sequence Analysis</b>	Ser293-Pro-Lys-His-His-Ser-Gln-Arg-Ala-Arg
<b>Endotoxin</b>	<0.01 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>95%, by SDS-PAGE with silver staining, under reducing conditions.

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<b>Storage</b>	<p>Avoid repeated freeze-thaw cycles.</p> <p>12 months, -20 to -70 centigrade as supplied.</p> <p>1 month, 2 to 8 centigrade under sterile conditions after reconstitution.</p> <p>3 months, -20 to -70 centigrade under sterile conditions after reconstitution.</p>
<b>Reconstitution</b>	Reconstitute at 50-200 µg/mL in 4 mM HCl.
<b>Quality Statement</b>	Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## GENE INFORMATION

<b>Gene Name</b>	BMP4 bone morphogenetic protein 4 [ Homo sapiens ]
<b>Official Symbol</b>	BMP4
<b>Synonyms</b>	BMP4; bone morphogenetic protein 4; BMP2B; BMP-4; BMP-2B; bone morphogenetic protein 2B; ZYME; OFC11; BMP2B1; MCOPS6;
<b>Gene ID</b>	652
<b>mRNA Refseq</b>	NM_001202
<b>Protein Refseq</b>	NP_001193

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<b>MIM</b>	112262
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<b>UniProt ID</b>	P12644
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