

Active GMP Recombinant Human BMP4 Protein

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

SPECIFICATION

Product Overview	Recombinant Human BMP4, Ser293-Arg408, was produced in NS0 cell under cGMP guidelines.
Species	Human
Source	Mammalian Cells
ProteinLength	293-408 a.a.
Form	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA.
Bio-activity	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.
Molecular Mass	Predicted Molecular Mass: 13 (monomer) kDa SDS-PAGE: 22-25 kDa, reducing conditions; 37-41 kDa, non-reducing conditions
N-terminal Sequence Analysis	Ser293-Pro-Lys-His-His-Ser-Gln-Arg-Ala-Arg
Endotoxin	<0.01 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE with silver staining, under reducing conditions.

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Storage	Avoid repeated freeze-thaw cycles. 12 months, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 50-200 µg/mL in 4 mM HCl.
Quality Statement	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.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

GENE INFORMATION

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

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MIM	112262
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UniProt ID	P12644
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