

Active GMP Recombinant Human BMP2 Protein

Cat. No. BMP2-119HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP2, Gln283-Arg396, was produced in CHO cell under cGMP guidelines.
Species	Human
Source	CHO
ProteinLength	283-396 a.a.
Form	Lyophilized from a 0.2 µm filtered solution in Glycine, Sucrose, Tween® 80 and Glutamic Acid.
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. The ED50 for this effect is 40-200 ng/mL. The specific activity of recombinant human BMP-2 is approximately 781 units/µg, which is calibrated against human BMP-2 WHO Standard (NIBSC code: 93/574).
Molecular Mass	Predicted Molecular Mass: 13 (monomer) kDa SDS-PAGE: 15-16 kDa, reducing conditions
N-terminal Sequence Analysis	Gln-Ala-Lys-His-Lys-Gln-Arg-Lys-Arg-Leu
Endotoxin	<0.10 EU per 1 µg of the protein by the LAL method.

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Purity	>95%, by SDS-PAGE with silver staining, under reducing conditions.
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 100 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	BMP2 bone morphogenetic protein 2 [Homo sapiens]
Official Symbol	BMP2
Synonyms	BMP2; bone morphogenetic protein 2; BMP2A; BMP-2A; bone morphogenetic protein 2A; BDA2;
Gene ID	650
mRNA Refseq	NM_001200

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Protein Refseq	NP_001191
MIM	112261
UniProt ID	P12643

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