

Active Recombinant Human BMP4/BMP7 protein

Cat. No. BMP4&BMP7-710H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP4(Ser293-Arg408)/BMP7(Ser293-His431) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	BMP4(Ser293-Arg408)/BMP7(Ser293-His431)
Predicted N Terminal	Met (BMP-4) & Ser293 (BMP-7)
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. Nakamura, K. et al. (1999) Exp. Cell Res. 250:351. The ED50 for this effect is typically 15-75 ng/mL.
Molecular Mass	Predicted Molecular Mass: 13.3 (BMP-4), 15.8 (BMP-7) kDa
Endotoxin	<0.01 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under

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sterile conditions after reconstitution.3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution Reconstitute at 100 µg/mL in sterile 4 mM HCl.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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

MIM 112262

UniProt ID P12644

Chromosome Location 14q22-q23

Pathway Adipogenesis, organism-specific biosystem; Basal cell carcinoma, organism-specific

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biosystem; Basal cell carcinoma, conserved biosystem; Glypican 3 network, organism-specific biosystem; Heart Development, organism-specific biosystem; Hedgehog signaling pathway, organism-specific biosystem; Hedgehog signaling pathway, conserved biosystem;

Function

BMP receptor binding; chemoattractant activity; cytokine activity; growth factor activity; protein binding;

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