

Recombinant Full Length Human BMP4 Protein, C-His-tagged

Cat. No. BMP4-1164HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human BMP4 Protein, fused to His-tag at N-terminus, was expressed in E. coli.
Species	Human
Source	E.coli
Description	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. This protein regulates heart development and adipogenesis. Mutations in this gene are associated with orofacial cleft and microphthalmia in human patients. The encoded protein may also be involved in the pathology of multiple cardiovascular diseases and human cancers.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	46.4 kDa
AA Sequence	A DNA sequence encoding human full-length BMP4.
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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	handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway
Protein Pathways	Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer, TGF-beta signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	BMP4 bone morphogenetic protein 4 [Homo sapiens (human)]
Official Symbol	BMP4
Synonyms	ZYME; BMP2B; OFC11; BMP2B1; MCOPS6
Gene ID	652
mRNA Refseq	NM_130851.4
Protein Refseq	NP_570912.2

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MIM 112262

UniProt ID P12644

SDS-PAGE



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