

Recombinant Human BMP4 Protein, His-MBP-tagged

Cat. No. BMP4-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP4 Protein 25-408 aa (full-length) with His-MBP tag was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	25-408 a.a.
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.
Molecular Mass	90.2 kDa
Purity	>90% confirmed by 10% SDS-PAGE stained with Coomassie Blue (CB)
Applications	ELISA, WB, Antibody Production, Protein array
Quality Control Test	10% SDS-PAGE stained with Coomassie Blue (CB), immunoblotting with anti-MBP

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(WB) and peptide fingerprinting by MALDI-TOF mass spectrometry.

Storage

Store working aliquots at 4 centigrade for up to one week.
For extended storage, conserve at -80 centigrade.

Expiry

12 months from the date of purchase, if it is properly stored.

Storage Buffer

20mM Sodium Phosphate, 0.5M NaCl, 0.15M imidazole and 30% glycerol, pH 7.4. No preservatives added.

Shipping

Dry Ice

GENE INFORMATION

Gene Name

BMP4 bone morphogenetic protein 4 [Homo sapiens (human)]

Official Symbol

BMP4

Synonyms

BMP4; bone morphogenetic protein 4; ZYME; BMP2B; OFC11; BMP2B1; MCOPS6;
bone morphogenetic protein 4; bone morphogenetic protein 2B

Gene ID

652

mRNA Refseq

NM_001202

Protein Refseq

NP_001193

MIM

112262

UniProt ID

P12644

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