

Recombinant Human BMP4 Protein

Cat. No. BMP4-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant BMP-4 (293-408 aa) protein without tag was expressed as insoluble protein aggregate in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Species	Human
Source	E.coli
ProteinLength	117 aa
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	Liquid
Molecular Mass	13.2 kDa
AA Sequence	MSPKHHSQRARKKNKNCRRHSLYVDFSDVGWNDWIVAPPGYQAFYCHGDCPFPL ADHLNSTNHAIVQTLVNSVNSSIPKACCVPTELSAISMLYLDEYDKVVLKNYQEMVVE

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	GCGCR
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 85% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Bradford assay)
Storage Buffer	10 mM Sodium Citrate buffer (pH 3.5) containing 10% glycerol

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

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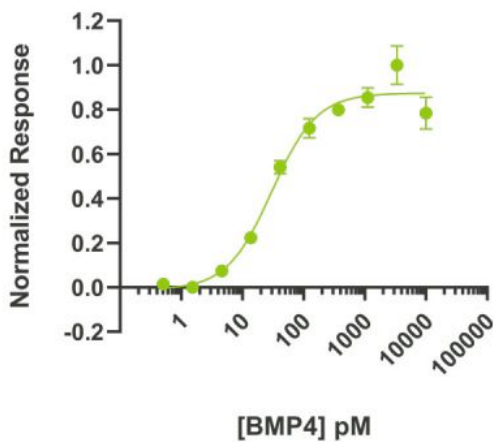
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UniProt ID

P12644

SDS-PAGE



3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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