Active GMP Recombinant Human BMP-4 Protein

Cat. No. BMP4-01HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BMP4 protein, was expressed in CHO-K1 cell-derived in an animal component free process under cGMP guidelines.
Species	Human
Source	CHO
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	Lyophilized powder
Endotoxin	<20 EU/mg
Bio-activity	>2.0 x 10^5 IU/mg
Purity	>95.0% by high performance liquid chromatography (SEC-HPLC) and SDS-PAGE.
Storage Buffer	10mM Phosphate-Buffered Saline (pH 7.2)

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Storage	Stable storage at 4℃ for 7-10 days; for long-term storage, please store at -20℃ after dispensing.
Sterility	Sterility
Instructions	It is recommended that lyophilized GMP rhBMP4 be dissolved in water for injection or sterilized ultrapure water at a concentration of not less than 100 μg/ml, pending further dilution to working concentration.

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_001202.6
Protein Refseq	NP_001193.2
UniProt ID	P12644
MIM	112262

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