

Recombinant Human Bone Morphogenetic Protein 10

Cat. No. BMP10-26H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP-10 produced in <i>E.coli</i> is a 32 kDa disulfide-linked homodimer containing two 142 amino acid polypeptide chains.
Species	Human
Source	E.coli
Description	BMP10 is a polypeptide belonging to the TGF- β superfamily of proteins. It is a novel protein that, unlike most other BMP"s, is likely to be involved in the tabeculation of the heart. Bone morphogenetic proteins are known for their ability to induce bone and cartilage development. BMP10 is categorized as a BMP since it shares a large sequence homology with other BMP"s in the TGF- β superfamily.
Purity	>98% by SDS-PAGE and HPLC analyses. Endotoxin level is <0.1 ng per g of BMP-10.
Form	Sterile filtered and lyophilized with no additives.
Biological Activity	The protein is biologically active as determined by its ability to induce alkaline phosphatase production by C2C12 cells. The ED50 is in the range of 0.3-3 μ g/ml.
Storage	The lyophilized protein is best-stored desiccated below 0°C. Reconstituted BMP-10 should be stored in working aliquots at -20°C.

GENE INFORMATION

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Gene Name	BMP10 bone morphogenetic protein 10 [Homo sapiens]
Synonyms	BMP10; bone morphogenetic protein 10;MGC126783; BMP-10
Gene ID	27302
mRNA Refseq	NM_014482
Protein Refseq	NP_055297
MIM	608748
UniProt ID	O95393
Chromosome Location	2p13.3
Function	cytokine activity; growth factor activity; protein binding; receptor; serine/threonine kinase binding

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