

Active Recombinant Human BMP10 Protein

Cat. No. BMP10-009H Lot. No. (See product label)

SPECIFICATION

Product Overview	The mature recombinant human BMP-10 protein consists of 108 amino acids (317-424) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	317-424 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 the mature protein, which binds to the activin receptor-like kinase 1 (ALK1) and plays important roles in cardiovascular development including cardiomyocyte proliferation and regulation of heart size, closure of the ductus arteriosus, angiogenesis and ventricular trabeculation.
Bio-activity	Measured by its ability to induce alkaline phosphatase production by MC3T3-E1 mouse preosteoblast cells. The ED50 for this effect is 15-60 ng/mL.
Molecular Mass	12.2 kDa
Product-Related Proteins	317-424

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Endotoxin	< 0.1 EU/μg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE
Storage	At -80 centigrade. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS

GENE INFORMATION

Gene Name	BMP10 bone morphogenetic protein 10 [Homo sapiens (human)]
Official Symbol	BMP10
Synonyms	BMP10; bone morphogenetic protein 10; bone morphogenetic protein 10
Gene ID	27302
mRNA Refseq	NM_014482
Protein Refseq	NP_055297
MIM	608748
UniProt ID	O95393

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