Recombinant Rat BMP10 Protein, His tagged

Cat. No. BMP10-999R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat BMP10 Protein with His tag was expressed in HEK293.
Species	Rat
Source	HEK293
ProteinLength	317-424 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 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.
AASequence	NAKGNYCKKTPLYIDFKEIGWDSWIIAPPGYEAYECRGVCNYPLAEHLTPTKHAIIQALVHLKNSQKASKACCVPTKLDPISILYLDKGVVTYKFKYEGMAVSECGCRHHHHHHHHHH
Molecular Mass	13 kDa
Purity	> 90% by SDS-PAGE

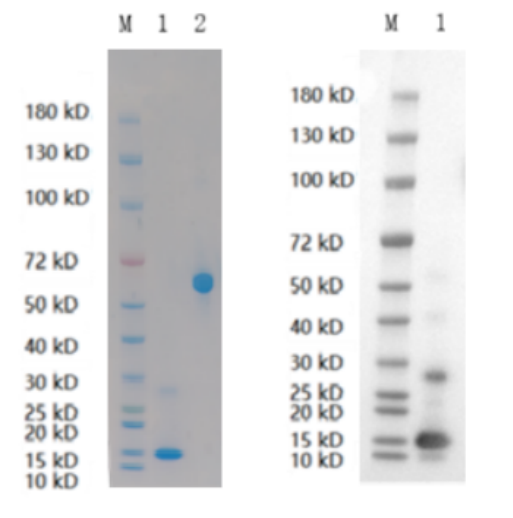
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Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Lyophilized from PBS, pH7.4, 0.1% SKL, 5% Trehalose, 5% Mannitol
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	BMP10 bone morphogenetic protein 10 [Homo sapiens (human)]
Official Symbol	BMP10
Synonyms	BMP10; bone morphogenetic protein 10; MGC126783
Gene ID	27302
mRNA Refseq	NM_014482
Protein Refseq	NP_055297
MIM	608748
UniProt ID	O95393

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SDS-PAGE	 Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified BMP10. 1. BMP10: 1 μg 2. BSA: 1 μg

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