Active Recombinant Human BMP10 Protein (Asn317-Arg424), C-His tagged, Animal-free, Carrier-free

Cat. No. BMP10-127H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP10 Protein (Asn317-Arg424) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Asn317-Arg424
Description	Bone Morphogenetic Protein-10 (BMP-10) is an extracellular multifunctional signaling cytokine that is also a member of the TGFβ family. BMP-10 can bind with TGFβ receptor and is involved in SMAD protein signal transduction. The functions related to bone generation can induce bone and cartilage formation. Different from other family members, BMP-10 is a novel protein involved in the heart's trabeculation.
Form	Lyophilized
Bio-activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is 1.7-2.1 ng/mL.
Molecular Mass	The protein has a calculated MW of 13.10 kDa. The protein migrates as 16 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 EU/μg of the protein by the LAL method.

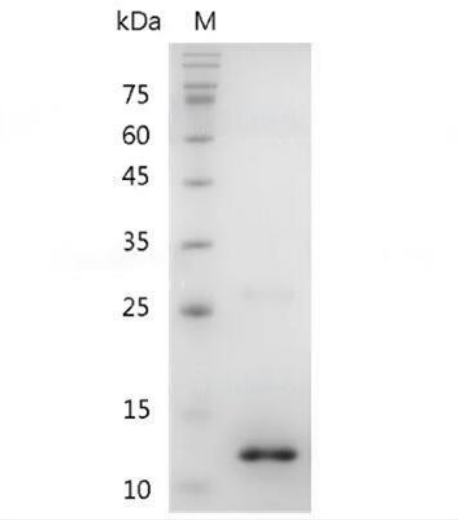
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Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 3.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in 4 mM HCl to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

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

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MIM	608748
UniProt ID	O95393
SDS-PAGE analysis of recombinant human BMP-10.	

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