

Human BMP-10 Protein, His tag (Animal-Free)

Cat #: PRP1202

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human BMP-10 Protein,His tag (Animal-Free)		
REF	Catalog Number: PRP1202	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: 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.

Sequence: Amino acid sequence derived from Human BMP-10 (Met316-Arg424) (O95393) was expressed with 6×His tag at the C-terminus.

Protein length: The recombinant Human BMP-10 consists of 109 amino acids and predicts a molecular mass of 13.1 kDa.

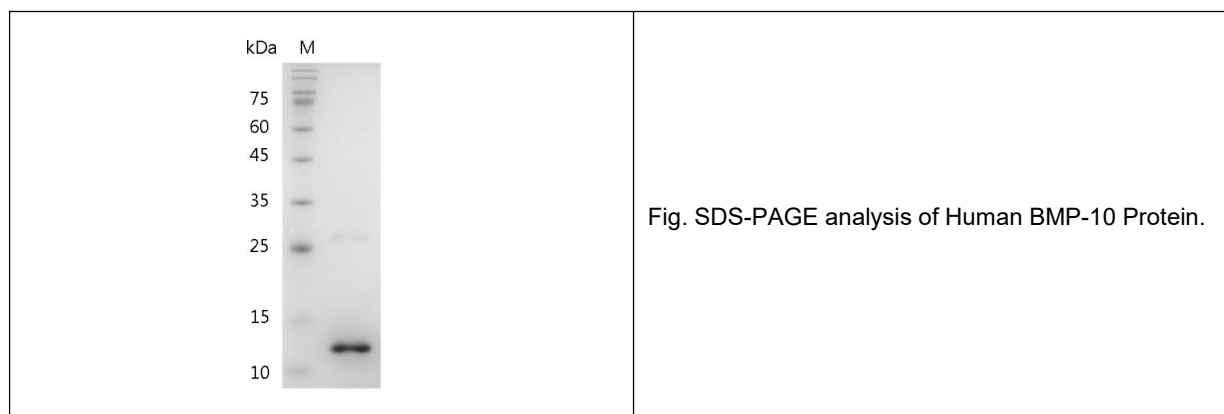
Biological Activity: Measured by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is 1.7-2.1 ng/mL.

Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method.

Formulation: Lyophilized from 20 mM sodium citrate, 0.2 M NaCl, pH 3.5

Storage Instructions: Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA, 10% FBS or 0.1% BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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