

Human BMP-14 Protein, His tag (Animal-Free)

Cat #: PRP1206

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human BMP-14 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1206	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-14 (BMP-14), known as Growth Differentiation Factor 5 (GDF5), is an extracellular multifunctional cytokine that is also a member of the TGFβ family. BMP-14 can bind with the TGFβ receptor and trigger SMAD protein signal transduction. BMP-14 plays a role in skeletal and joint development and increases the survival of neurons that respond to the neurotransmitter dopamine.

Sequence: Amino acid sequence derived from Human BMP-14 (Met381-Arg501) (P43026) was expressed with 6×His tag at the C-terminus.

Protein length: The recombinant Human BMP-14 consists of 121 amino acids and predicts a molecular mass of 14.52 kDa.

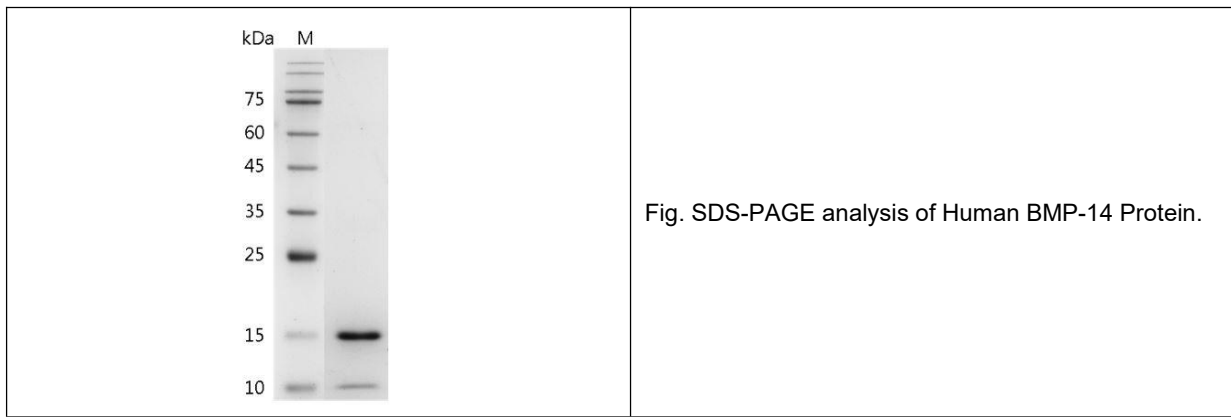
Biological Activity: Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <14 ng/mL.

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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