


Human BMP-4 Protein, His tag (Animal-Free)

Cat #: PRP1064

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human BMP-4 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1064	LOT	Lot Number: Refer to product label
	Purity: > 95% as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E.coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: Bone morphogenic protein-4 (BMP-4) is one of nine structurally related BMPs belonging to the transforming growth factor-beta (TGF-beta) superfamily of secreted proteins. Mature BMP-4 is a dimer that binds to a multimeric transmembrane receptor with serine/threonine kinase activity. BMP-4 has important roles as a signalling molecule in embryonic tissues, including the developing central and peripheral nervous system, musculature and skeleton. BMP-4 as well as its receptors and their signal transduction pathways play a crucial role in the control of the differentiation and proliferation of the different cell types that constitute the anterior pituitary.

Sequence: Amino acid sequence derived from Human BMP-4 (Met302-Arg408)(P12644) was expressed with 6xHis tag at the C-terminus.

Protein length: The recombinant Human BMP-4 consists of 107 amino acids and predicts a molecular mass of 12.1 kDa.

Biological Activity: Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <0.58 ng/mL.

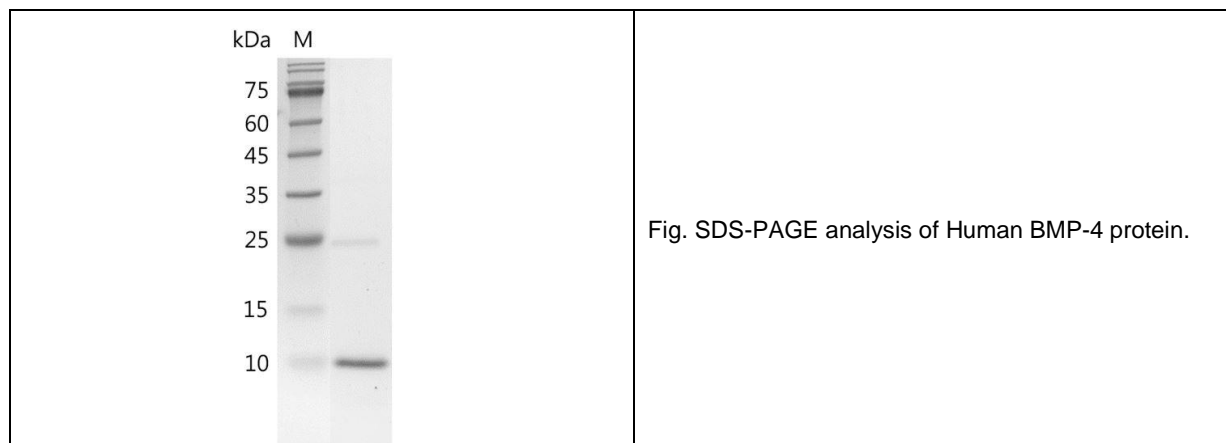
Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

Formulation: The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM sodium carbonate, pH 9.0.

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 human

BMP-4 protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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