


Human BMP-4 Protein

Cat #: PRP1074

Size: 5 µg/ 20 µg/ 100 µg/ 1mg

Product Information

	Product Name: Human BMP-4 Protein		
REF	Catalog Number: PRP1074	LOT	Lot Number: Refer to product label
	Purity: >95 % 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 -4 (BMP-4) is one of nine structurally related BMP's, belonging to transforming growth factor- β (TGF- β) superfamily, which secretes proteins. Mature BMP-4 is a dimer that binds to a multimeric transmembrane receptor with serine/threonine kinase activity. BMP-4 treatment promoted the proliferation of HCC cells and induced autophagy. Mechanism study shows that autophagy induced by BMP-4 is mediated by activating JNK1/Bcl2 pathway. JNK1 inhibitor and JNK1 knockout can weaken BMP-4-induced autophagy and eliminate BMP-4-promoted HCC cell growth. BMP-4 promotes the proliferation of HCC through autophagy activation of JNK1/Bcl-2 signaling.

Sequence: Amino acid sequence derived from Human BMP-4 (NC_000014.9) (Lys303-Arg408) was expressed.

Protein length: The recombinant Human BMP-4 consists of 106 amino acids and predicts a molecular mass of 11.9 kDa.

Biological Activity: Testing in progress.

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

Formulation: Lyophilized from sterile 20mM Tris, 50mM NaCl, pH 8.0.

Storage Instructions: Lyophilized recombinant Human BMP-4 protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or 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 using the buffer we provided not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

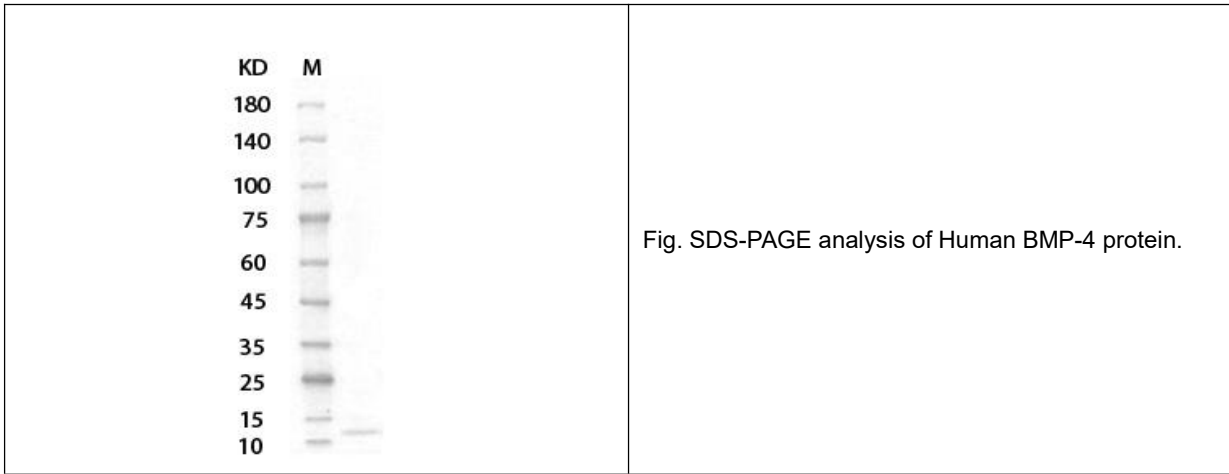


Fig. SDS-PAGE analysis of Human BMP-4 protein.

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