


Human BMP-2 Protein, His tag (Animal-Free)

Cat #: PRP1057

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human BMP-2 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1057	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: BMP-2 protein, like other bone morphogenetic proteins, plays an important role in the development of bone and cartilage. BMP-2 protein is involved in the hedgehog pathway, TGF beta signaling pathway, and cytokine-cytokine receptor interaction. BMP-2 and BMP-7 are osteogenic BMPs that have been demonstrated to potently induce osteoblast differentiation in a variety of cell types. BMP-2, BMP-4 and BMP-7 are known to be of major importance in bone formation and repair. In cancerous tissues BMP-2 protein may play an important role in the progression of glioma.

Sequence: Amino acid sequence derived from Human BMP-2 (Gln283-Arg396)(P12643) was expressed with 6xHis tag at the C-terminus.

Protein length: The recombinant Human BMP-2 consists of 115 amino acids and predicts a molecular mass of 13 kDa.

Biological Activity: Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <1.0 µg/mL.

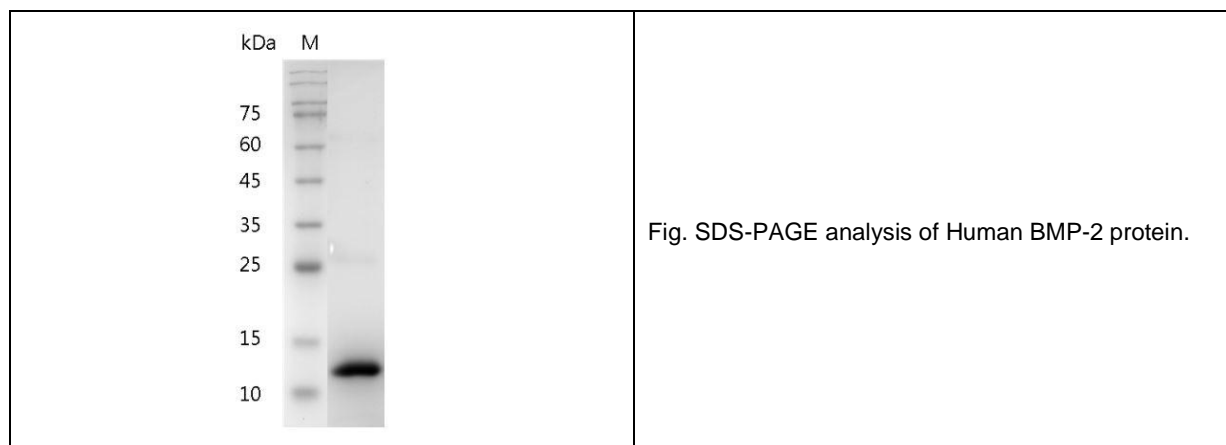
Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

Formulation: The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM sodium 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 Human

BMP-2 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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