


Mouse BMP-4 protein

Cat #: PRP1147

Size: 5µg/20µg/100µg/1mg

Product Information

	Product Name: Mouse BMP-4 protein		
REF	Catalog Number: PRP1147	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 4 (BMP-4) is a member of transforming growth factor (TGF-β) family, which plays a vital role in human malignant tumors. 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 the autophagy induced by BMP-4 and eliminate the growth of HCC cells promoted by BMP-4. BMP-4 promotes the proliferation of HCC through autophagy activation of JNK1/Bcl-2 signaling.

Sequence: Amino acid sequence derived from Mouse BMP-4 (Lys303-Arg408)(P21275) with 6×His tag at the C-terminus was expressed.

Protein length: The secreted Mouse BMP-4 consists of 106 amino acids and has a predicted molecular mass of 12.8 kDa.

Biological Activity: Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <10 ng/mL. The specific activity of recombinant Mouse BMP-4 is > 1 x 10⁵ IU/mg.

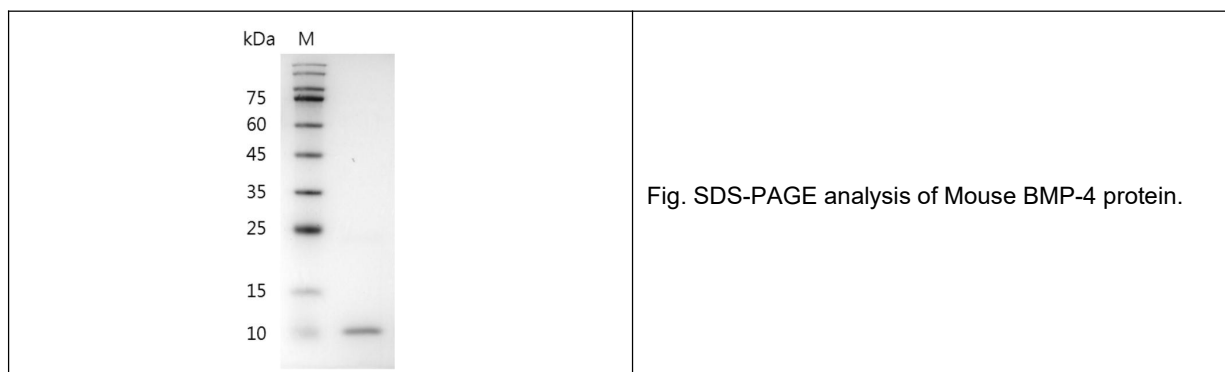
Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile 20 mM sodium carbonate, pH 4.5.

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 Mouse 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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