

Mouse BMP4 Protein, His tag

Cat #: PRP1227

Size: 5 µg/20 µg/100 µg /1 mg

Product Information

	Product Name: Mouse BMP4 Protein, His tag		
REF	Catalog Number: PRP1227	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 (BMP4) is a multifunctional ligand protein belonging to TGF β Family. BMP4 is expressed by endothelial cells (EC) in response to hypoxia and promotes proliferation of vascular smooth muscle cells (SMC). For example, it inhibits the proliferation of SMCs isolated from the proximal pulmonary artery while inducing the proliferation of SMCs isolated from the distal pulmonary artery. BMP4 seems to be a marker and driver of vascular calcification, especially in atherosclerosis. BMP4 induces angiogenesis, endothelial cell (EC) proliferation, and migration. BMP4 is differentially expressed in calcified atherosclerotic plaque, which is the junction between atherosclerotic vascular calcification and normal bone formation mechanism. BMP4 increases plaque formation, promotes oxidative stress, endothelial dysfunction and osteogenic differentiation through its proinflammatory and atherogenic effects.

Sequence: Amino acid sequence derived from Mouse BMP4 (P21275) (Lys303-Arg408) was expressed.

Protein length: The recombinant Mouse BMP4 consists of 106 amino acids and predicts a molecular mass of 12.1 kDa.

Biological Activity: Testing in progress.

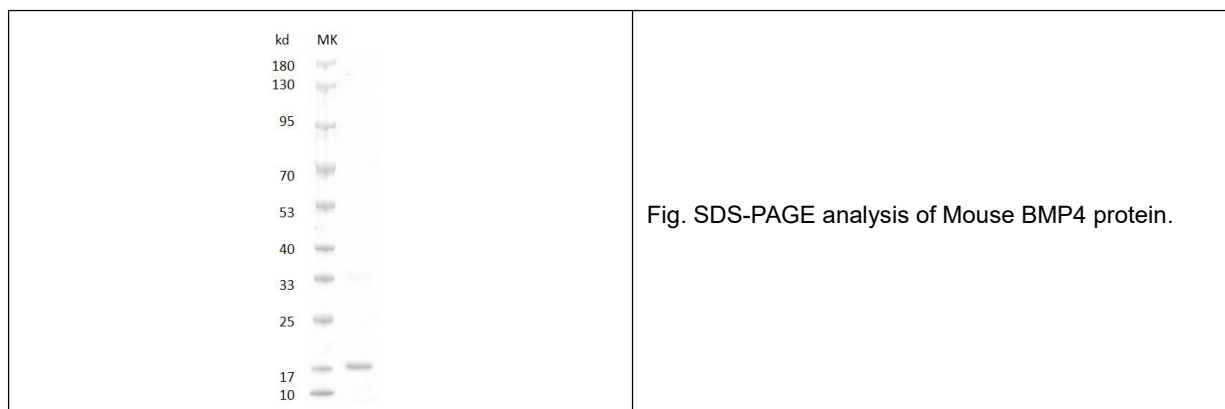
Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile PBS, pH 4.0.

Storage Instructions: Lyophilized 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 protein using the

buffer we provided not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.



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