

Human BMP-9 Protein, His tag (Animal-Free)

Cat #: PRP1200

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human BMP-9 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1200	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: Human bone morphogenetic protein 9 (BMP-9), also known as growth differentiation factor 2 (GDF-2), is a transforming growth factor β A member of the BMP subgroup of the superfamily protein, which transmits signals through heterodimeric complexes composed of type I and type II BMP receptors. BMP-9 regulates the development and function of various embryonic and adult tissues. BMP-9 is synthesized and secreted by non parenchymal cells in the liver, which can promote lipid metabolism and inhibit glucose production. BMP-9 plays an important role in the development and maintenance of cholinergic neuron phenotype in the embryonic central nervous system. BMP-9 also induces mesenchymal stem cells to differentiate into chondrocyte lines. At low concentrations, BMP-9 is a proliferation factor of hematopoietic progenitor cells; but at high concentrations, it will promote TGF- β The production of 1 inhibits the formation of blood progenitor cell colonies.

Sequence: Amino acid sequence derived from Human BMP-9 (Ser320-Arg429) (Q9UK05) was expressed with 6×His tag at the N-terminus.

Protein length: The recombinant Human BMP-9 consists of 110 amino acids and predicts a molecular mass of 12.89 kDa.

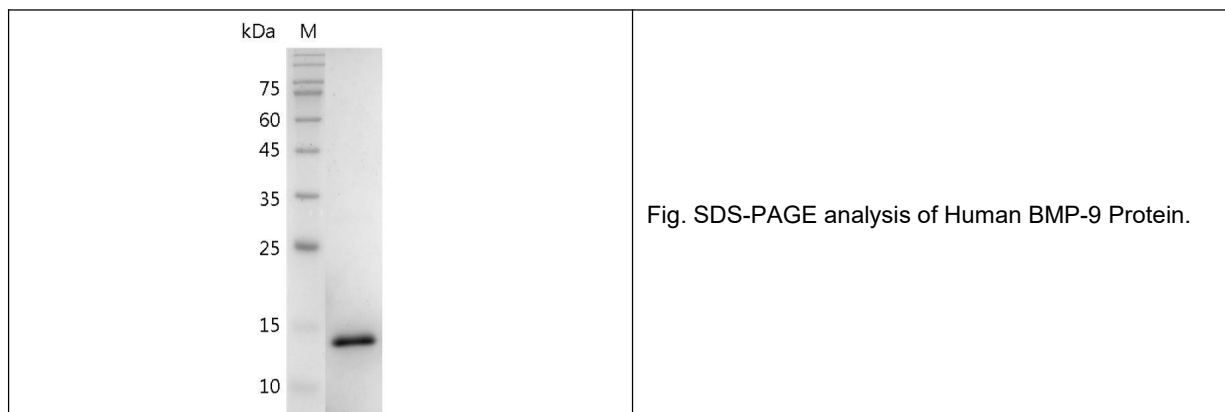
Biological Activity: Measured by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <0.4 ng/mL.

Endotoxin: <0.01 EU per 1 µg of the protein by the LAL method.

Formulation: Lyophilized from 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 protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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