

Human BMP-16 Protein, His tag (Animal-Free)

Cat #: PRP1207

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human BMP-16 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1207	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 16 (BMP-16) predicts a molecular mass of 14 kDa. BMPs are multi-functional Growth Factorss that belong to the transforming Growth Factors beta (TGF-β) superfamily. BMPs initiate signaling from the cell surface by binding to two different receptors (R: Type I and II). The heterodimeric formation of type I R and II R may occur before or after BMP binding, inducing signal transduction pathways through SMADs.

Sequence: Amino acid sequence derived from Human BMP-16 (Met237-Leu347) (Q96S42) was expressed with 6×His tag at the C-terminus.

Protein length: The recombinant Human BMP-16 consists of 111 amino acids and predicts a molecular mass of 13.75 kDa.

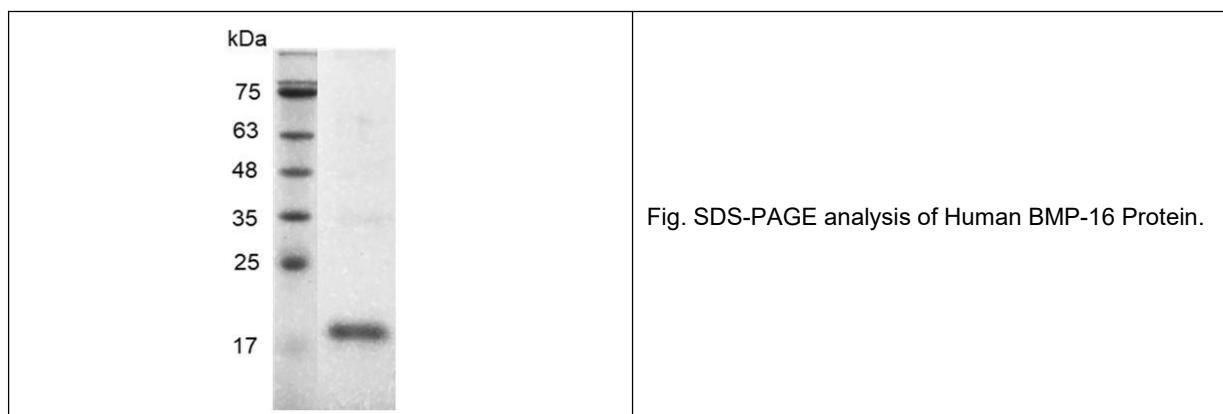
Biological Activity: Measured by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <2.2 ng/mL.

Endotoxin: <0.1 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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