

Human BMP-8a Protein, His tag (Animal-Free)

Cat #: PRP1197

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human BMP-8a Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1197	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: BMP-8 is a multifunctional ligand protein that is enriched in the ovaries as a reproductive system regulatory factor. BMP-8 is encoded by a pair of BMP8a and BMP8b genes and belongs to TNF-β Family. BMP-8a activates the SMAD1/5/8 and SMAD2/3 pathways in granulosa cells, inhibiting the expression of gonadotropin-induced progesterone production and hormone related genes. BMP-8a also participates in Nrf2 phosphorylation in cancer cells to promote their survival and drug resistance.

Sequence: Amino acid sequence derived from Human BMP-8a (Ala264-His402) (Q7Z5Y6) was expressed with 6×His tag at the C-terminus.

Protein length: The recombinant Human BMP-8a consists of 139 amino acids and predicts a molecular mass of 16.61 kDa.

Biological Activity: Measured by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is 10-19.4 ng/mL.

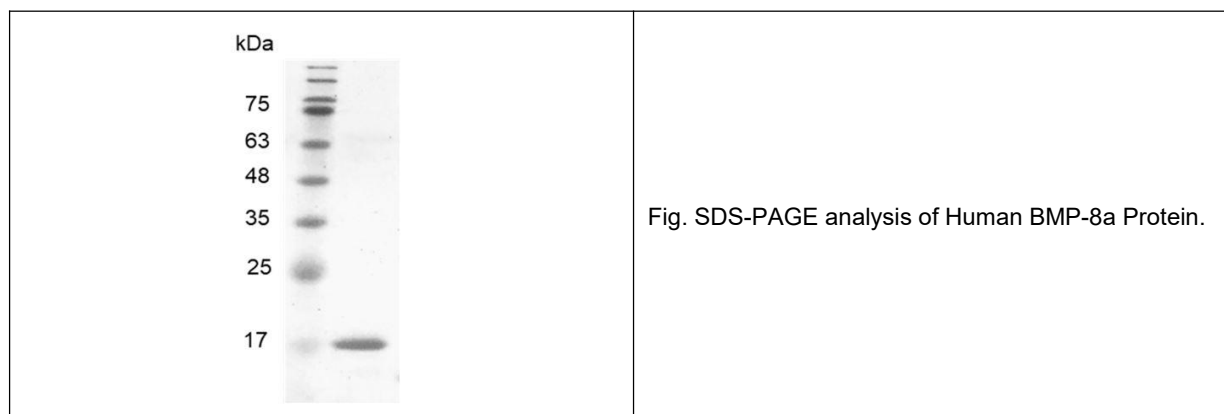
Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method.

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.



Note: The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.