


## Human BMP-5 Protein, His tag (Animal-Free)

Cat #: PRP1198

Size: 5 µg/20 µg/100 µg/1 mg

### Product Information

	<b>Product Name:</b> Human BMP-5 Protein, His tag (Animal-Free)		
<b>REF</b>	<b>Catalog Number:</b> PRP1198	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 98 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> E.coli
	<b>Shipping:</b> The product is shipped at ambient temperature.		

**Background:** BMPs (bone morphogenetic proteins) belong to the TGF- $\beta$  superfamily of structurally related signaling proteins. As implied by their name, BMPs promote and regulate bone development, growth, remodeling and repair, in both prenatal development and postnatal growth of eye, heart, kidney, skin, and other tissues. Human BMP-5 is a 17 kDa homodimeric protein consisting of two 138 amino acid polypeptide chains.

**Sequence:** Amino acid sequence derived from Human BMP-5 (Ala317-His454) (P22003) was expressed with 6×His tag at the C-terminus.

**Protein length:** The recombinant Human BMP-5 consists of 138 amino acids and predicts a molecular mass of 16.57 kDa.

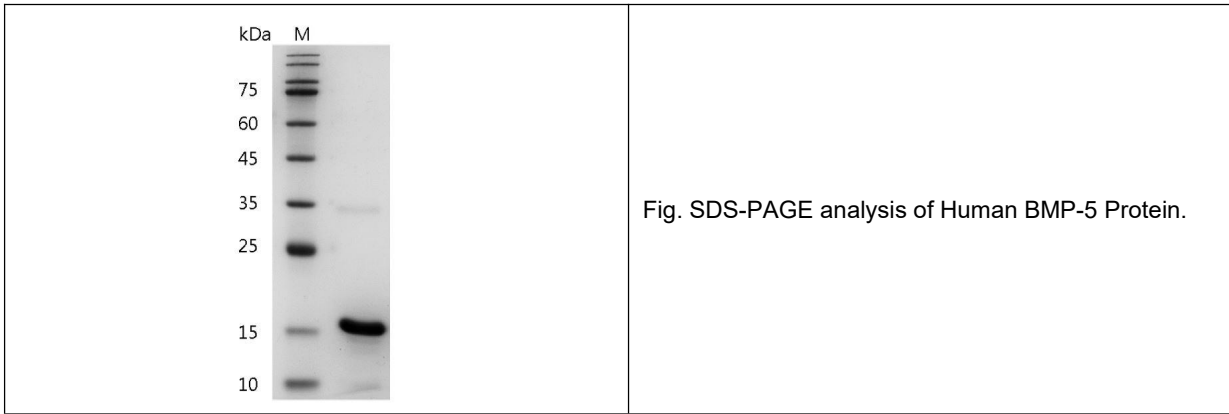
**Biological Activity:** Measured by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED<sub>50</sub> for this effect is <0.17 µg/mL.

**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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