


## Human BMP-7 Protein

Cat #: PRP1946

Size: 5 µg/20 µg/100 µg /1 mg

### Product Information

	<b>Product Name:</b> Human BMP-7 Protein		
<b>REF</b>	<b>Catalog Number:</b> PRP1946	<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:** Bone morphogenetic protein 7 (BMP-7) is a multifunctional ligand protein belongs to the TGF-β family. BMP-7 is involved in regulating the proliferation, invasion, and migration of cancer cells, and is associated with various human tumors. BMP-7 binds to ALK2 or ACVR2A/BMPRII excitation signals, which are regulated and terminated by SMADs. BMP-7 is involved in the BMP-7 Smad1/5/9 signaling pathway and is associated with the epithelial mesenchymal transition (EMT) process. BMP-7 also eliminates vascular inflammation, maintains vascular integrity, weakens vascular calcification, and stimulates in situ phosphorylation deposition. The growth factor domain of human BMP-7 shares 98% aa sequence identity with mouse and rat BMP-7.

**Sequence:** Amino acid sequence derived from Human BMP-7 (Met315-His431) (P18075) was expressed.

**Protein length:** The recombinant Human BMP-7 Protein consists of 117 amino acids and predicts a molecular mass of 13.2 kDa.

**Biological Activity:** Testing in Progress.

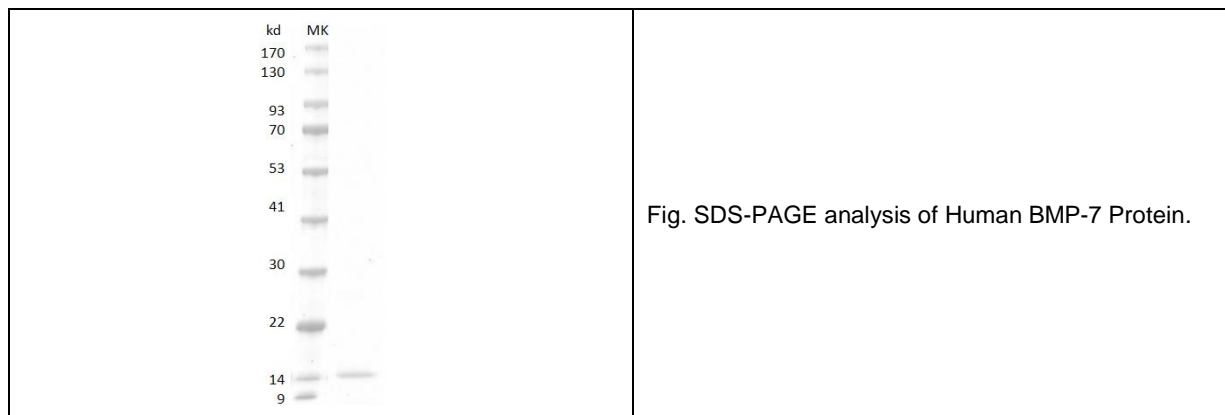
**Endotoxin:** <0.1 EU per µg of the protein by the LAL method.

**Formulation:** Lyophilized from 20 mM Tris-HCl, 250 mM NaCl, pH 8.0.

**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.



**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.