


## Human BMP-3 Protein

Cat #: PRP1047

Size: 10 µg/50 µg/500 µg

### Product Information

	<b>Product Name:</b> Human BMP-3 Protein		
<b>REF</b>	<b>Catalog Number:</b> PRP1047	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> > 95% 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:** BMP-3, also known as osteogenin, the most abundant BMP in adult bone, is one of at least 15 structurally and functionally related BMPs, which are members of the TGF-β superfamily. TGF-β family members are key modulators of cell proliferation, differentiation, matrix synthesis, and apoptosis. As implied by their name, BMPs initiate, promote, and regulate the development, growth, and remodeling of bone and cartilage. In addition to this role, BMPs are also involved in prenatal development and postnatal growth, remodeling and maintenance of a variety of other tissues and organs. BMP-3 is abundantly found in adult bone and, to a lesser extent, fetal cartilage. BMP-3 inhibits osteogenesis and bone formation by activating a signaling cascade that antagonizes the signaling of pro-osteogenic BMPs.

**Sequence:** Amino acid sequence derived from Human BMP-3 (Gln363- Arg472)(P12645) was expressed.

**Protein length:** The recombinant Human BMP-3 consists of 111 amino acids and predicts a molecular mass of 12.5 kDa.

**Biological Activity:** Testing in progress.

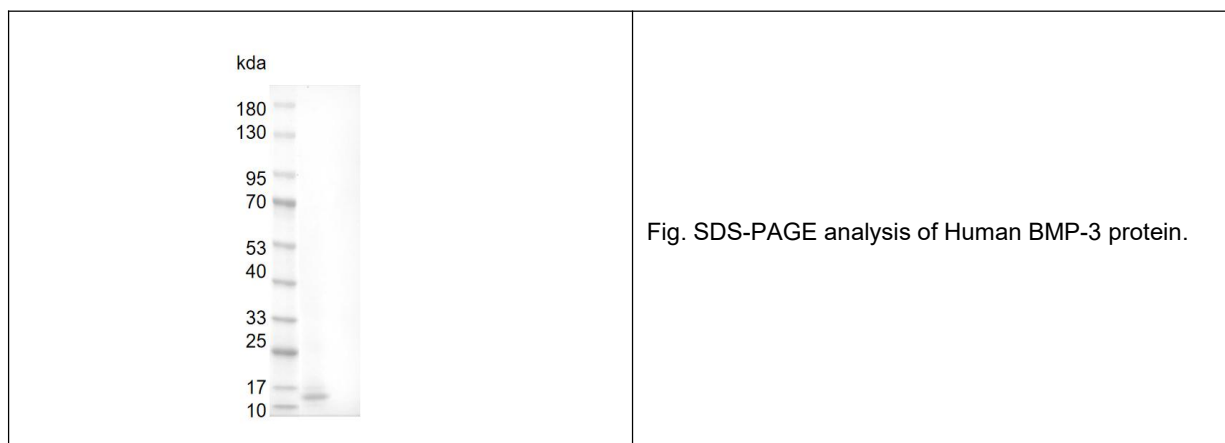
**Endotoxin:** < 1 EU per µg of the protein as determined by the LAL method.

**Formulation:** Lyophilized from 50mM Glycine, 150mM NaCl, pH 3.0.

**Storage Instructions:** Lyophilized recombinant Human BMP-3 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 recombinant Human BMP-3 protein using the buffer we provided not less than 100µg/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.