

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Bone Morphogenetic Proteins (BMPs) belong to the TGF- β (Transforming Growth Factor) superfamily of structurally related signaling proteins. BMP7 is one of at least 15 structurally and functionally related BMPs, originally identified as protein regulators of cartilage and bone formation which have since been shown to be involved in embryogenesis and morphogenesis of various tissues and organs. BMPs have been shown to regulate the growth, differentiation, chemotaxis and apoptosis of a variety of cell types; including mesenchymal cells, epithelial cells, hematopoietic cells and neuronal cells. The active form of BMP7 can consist of a dimer of two identical proteins or a heterodimer of two related BMPs. BMP7 is expressed highest in the kidneys and is genetically linked in mice to eye, skeletal and kidney development.

Catalog Number	1180-07
Product Name	BMP7, Human Inactive Protein Recombinant Human Bone Morphogenetic Protein 7, Inactive Protein BMP7 OP1 osteogenic protein 1
Source	<i>Escherichia coli</i>
MW	~15.6 kDa (139 amino acid)
Sequence	STGSKQRSQN RSKTPKNQEA LRMANVAENS SSDQRQACKK HELYVSFRDL GWQDWIIAPE GYAAYYCEGE CAFPLNSYMN ATNHAIQVTL VHFINPETVP KPCCAPTQLN AISVLYFDDS SNVILKKYRN MVRACGCH
Accession Number	P18075
Purity	>95% by SDS-PAGE and HPLC analyses
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 10 mM HAc to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions.