
Product Data Sheet

Product Name: BMP 7 Human
Cat. No.: GP20108
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Osteogenic Protein 1; BMP-7.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Thr-Gly-Ser-Lys.		
Solubility	It is recommended to briefly centrifuge the vial prior to opening to bring the contents to the bottom. Reconstitute in 20mM-100mM acetic acid at a concentration of 0.1-0.5mg per ml. Stock solutions should be apportioned into working aliquots and stored at <-20°C . Further dilutions should be made in appropriate buffered solutions.		
Formulation	BMP-7 was lyophilized from a concentrated (1mg/ml) sterile solution containing 10mM sodium citrate pH=3.5.		

Introduction

The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has lead to speculation of possible bone inductive activity.

Stability

Lyophilized BMP-7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution BMP 7 Human should be stored at 4°C

Caution: Product has not been fully validated for medical applications. For research use only.

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between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Bone Morphogenetic Protein-7 Human Recombinant produced in E.Coli is a monomeric, non-glycosylated, polypeptide chain containing 139 amino acids and having a molecular mass of 15679.97 Dalton. The BMP-7 is purified by proprietary chromatographic techniques.

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