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## Product Data Sheet

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Product Name: BMP 7 Human, His  
 Cat. No.: GP20109  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Osteogenic Protein 1; OP-1; BMP-7; Bone morphogenetic protein 7; BMP7; OP1.		
Amino Acid Sequence	MSTGSKQRSQ NRSKTPKNQE ALRMANVAEN SSSDQRQACK KHELYVSFRD LGWQDWIIAP EGYAAYYCEG ECAFPLNSYM NATNHAIVQTLVHFINPETV PKCCAPTQL NAISVLYFDD SSNVILKKYR NMVVRACGCH LEHHHHHH.		
Formulation	BMP-7 protein (0.5mg/ml) solution contains 10mM sodium citrate pH3.5 and 10% glycerol.		

### 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

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

### Background

BMP7 Human Recombinant produced in E.Coli is a monomeric, non-glycosylated, polypeptide chain containing 148 amino acids (293-431) and having a molecular mass of

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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16.8 kDa. The BMP-7 is fused to 8 amino acid His Tag at C-terminus & purified by proprietary chromatographic techniques.

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