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### Certificate of Analysis and Data Sheet

# Recombinant Human Bone Morphogenetic Protein-7, His6 Tagged

**Catalog No.**

228-10136

**Source:***E.Coli.***Synonyms:**

Osteogenic Protein 1, OP-1, BMP-7, Bone morphogenetic protein 7, BMP7, OP1.

**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 extraskelatal 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.

**Description:**

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

**Physical Appearance:**

Sterile Filtered colorless solution.

**Formulation:**

BMP-7 protein solution contains 10mM sodium citrate pH=3.5 and 10% glycerol.

**Purity:**

Greater than 95.0% as determined by SDS-PAGE.

**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. **Please avoid freeze thaw cycles.**

**Amino acid sequence:**

MSTGSKQRSQ NRSKTPKNQE ALRMANVAEN SSSDQRQACK KHELYVSFRD LGWQDWIIP  
EGYAAAYCEG ECAFPLNSYM NATNHAIVQTLVHFINPETV PKPCCAPTQL NAISVLYFDD  
SSNVILKKYR NMVVRACGCH LEHHHHHH.

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Not for diagnostic or therapeutic use.**