

Bone Morphogenetic Protein-7, Human Recombinant, His tagged**CATALOG NUMBER: CBM-629-050P, 50 µg**

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 extra-skeletal 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.

Source *Escherichia coli*

Amino Acid Sequence MSTGSKQRSQ NRSKTPKNQE ALRMANVAEN SSSDQRQACK KHELYVSFRD
LGWQDWIIP EGYAAYYCEG ECAFPLNSYM NATNHAIVQT LVHFINPETV
PKPCCAPTQL NAISVLYFDD SSNVILKKYR NMVVRACGCH LEHHHHHH

Formulation 50 µg in 10mM sodium citrate pH3.5 with 10% glycerol.

Storage Store at 4°C for immediate use (within 2-4 weeks). Store frozen at -20°C for longer period of time. Please avoid freeze & thaw cycles.

Purity > 95% pure by SDS-PAGE.