

# Product information

**BMP-7, 293-431 aa**

**Human, His-tagged, Recombinant, *E.coli***

**Cat. No. IBBMP0906**

**Full name:** Bone morphogenetic protein 7

**NCBI Accession No.:** NP\_001710

**Synonyms:** Osteogenic protein1, OP-1

**Description:** Bone morphogenetic protein-7 (BMP-7/OP-1) is a member of the transforming growth factor-beta (TGF-beta) superfamily. Like other members of the BMPs family, it plays a role in calcium regulation and bone homeostasis. BMPs have been also shown to regulate the growth, differentiation, chemotaxis and apoptosis of various cell types, including mesenchymal cells, epithelial cells, hematopoietic cells and neuronal cells. BMP7 also has the potential for treatment of chronic kidney disease. Recombinant human BMP-7 protein was expressed in *E.coli* and purified by using conventional chromatography techniques, after refolding of the isolated inclusion body in renaturation buffer.

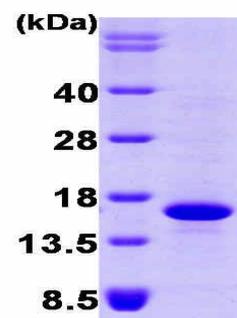
**Form:** Liquid. In 10mM Sodium Citrate buffer (pH 3.5) containing 10% glycerol

**Molecular Weight:** 16.8 kDa (148 aa), confirmed by MALDI-TOF

**Purity:** > 95% by SDS - PAGE

**Concentration:** 0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:** < 1.0 EU per 1 µg of protein (determined by LAL method)



15% SDS-PAGE (3µg)

**Sequences of amino acids:**

MSTGSKQRSQ NRSKTPKNQE ALRMANVAEN SSSDQRQACK KHELYVSFRD LGWQDWI IAP EGYAAYYCEG ECAFPLNSYM NATNHAIVQT  
LVHFINPETV PKPCCAPTQL NAISVLYFDD SSNVILKKYR NMVVRACGCH LEHHHHHH

**General references:**

González EA., *et al.* (2002) *Kidney Int.* **61**(4): 1322-31

Tseng YH., *et al.* (2008) *Nature.* **454**(7207): 1000-4

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**