



## Recombinant Human BMP-7, CHO

## Datasheet

**Catalog Number:** PR27001

**Product Type:** Recombinant Protein

**Source:** Chinese Hamster Ovary Cells

**Description/Molecular Mass:** N-TERMINAL---Human BMP-2 (Met 1 – Arg 282) Human BMP-7 (Ser 293 – Arg 431)---C-TERMINAL. The DNA sequence encoding the human BMP-2 signal peptide and propeptide (1~282 amino acid) fused to the human BMP-7 mature chain (293~431 amino acid) was expressed in a Chinese hamster ovary cell line. The mature recombinant BMP-7 generated by the proteolytic removal of the signal peptide and propetide contains 139 amino acid residues. The glycosylation of BMP-7 increases the molecular mass and the glycosylated proteins migrate as 25 ~ 40 kDa in SDS-PAGE under non-reducing conditions. BMP-7 is purified by proprietary chromatographic techniques.

**Biological Activity:** Measured in alkaline phosphatase activity assay using MC3T3-E1 cells. The ED<sub>50</sub> for this effect is < 100 ng/mL.

**Purity:** Greater than 97.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Format:** BMP-7 was lyophilized from a concentrated (1mg/ml) sterile solution containing 1% sucrose, 1.2% mannitol, 20mM glycine, and 0.005% tween 20 pH-4.

**Reconstitution:** It is recommended to reconstitute the lyophilized Bone Morphogenetic Protein-7 in sterile 20mM AcOH (acetic Acid) not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Storage:** 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 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 avoid freeze-thaw cycles.**

### FOR RESEARCH USE ONLY

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