



## Recombinant Human BMP-2

## Datasheet

**Catalog Number:** PR27023

**Product Type:** Recombinant Protein

**Source:** E. Coli

**Amino Acid Sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Met-Gln-Ala-Lys-His.

**Description/Molecular Mass:** Bone Morphogenetic Protein-2 Human Recombinant produced in E.Coli is a homodimeric, non-glycosylated, Polypeptide chain containing 115 amino acids and having a molecular mass of 26018 Dalton. The BMP-2 is purified by proprietary chromatographic techniques.

**Protein Content:** Protein quantitation was carried out by two independent methods:  
1. UV spectroscopy at 280 nm using the absorbency value of 1.4 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).  
2. Analysis by RP-HPLC, using a standard solution of BMP-2 as a Reference Standard.

**Biological Activity:** The ED<sub>50</sub> as determined by the cytolysis of MC3T3-E1 cells is less than 50 ng/ml.

**Purity:** Greater than 95.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Format:** BMP-2 was lyophilized from a concentrated (1mg/ml) sterile solution containing 20mM NaAc pH=4.

**Reconstitution:** It is recommended to reconstitute the lyophilized Bone Morphogenetic Protein-2 in sterile 20mM AcOH (acetic Acid) not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Storage:** Lyophilized Bone Morphogenetic Protein-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BMP2 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.**

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