

**Product:** Bone Morphogenetic Protein -2, Human Recombinant  
**Catalog #:** 11-BMP-2  
**Amount:** 5 µg

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**DESCRIPTION:** Recombinant Human BMP-2 produced in E.Coli is a homodimeric, non-glycosylated, Polypeptide chain containing 115 amino acids and having a molecular mass of 26018 Dalton. The rHuBMP-2 is purified by proprietary chromatographic techniques. The sequence of the first five N-terminal amino acids was determined and was found to be Met-Gln-Ala-Lys-His..

**SOURCE:** *E.Coli* Expression System

**PURITY:** Greater than 95.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Anion-exchange FPLC.  
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

**ENDOTOXIN:** Less than 0.1 ng/µg (IEU/µg) of BMP-2.

**DIMERS & AGREGATES:** Less than 1% as determined by silver-stained SDS-PAGE gel analysis

**FORM:** Purified, in 10mM sodium citrate pH=3.5.

**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.

**CONCENTRATION:** 0.1 mg/ml

**BIOLOGICAL ACTIVITY:** BMP-2 is fully biologically active when compared to standard. The ED50 as determined by the cytolysis of MC3T3-E1 cells is < 50 ng/ml.

**STORAGE:** -20°C (aliquot), avoid repeated freeze and thaw cycles

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