

## 32-20575: Recombinant Human BMP-5(Discontinued)

**Reactivity :** Human  
**Alternative Name :** Bone Morphogenetic Protein-5

### Description

#### Source:CHO cells

TGF-Beta family members are key modulators of cell proliferation, differentiation, matrix synthesis, and apoptosis. As implied by their name, BMPs initiate, promote, and regulate the development, growth, and remodeling of bone and cartilage. In addition to this role, BMPs are also involved in prenatal development and postnatal growth, remodeling, and maintenance of a variety of other tissues and organs. BMP-5 is expressed in the nervous system, lungs and liver. It is a known regulator for dendritic growth in sympathetic neurons. BMP-5 is a 454 amino acid precursor protein that is cleaved to release the biologically active C-terminal mature protein. Recombinant Human BMP-5 is a 31.2 kDa homodimeric disulfide-linked protein consisting of two identical 138 amino acid chains.

### Product Info

**Amount :** 2 µg / 10 µg  
**Purification :** Purity: >= 95% by SDS-PAGE gel and HPLC analyses.  
**Content :** This recombinant protein is supplied in lyophilized form.  
**Amino Acid :** AANKRKNQNR NKSSSHQDSS RMSSVG DYNT SEQKQACKKH ELYVSFRDLG WQDWIIAPEG  
YAAFYCDGEC SFPLNAHMNA TNHAIVQTLV HLMFPDHPK PCCAPTKLNA ISVLYFDDSS NVILKKYRNM  
VVRSCGCH

### Application Note

Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED<sub>50</sub> for this effect is 0.5-1.0 µg/ml.