

Recombinant Human BMP-6
Catalog # PBG10047**Specification**

Recombinant Human BMP-6 - Product Information**Recombinant Human BMP-6 - Additional Information****Description**

TGF- β 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. Increasing evidence indicates that BMP-Smad signaling has a tumor suppressing activity and that BMPs can inhibit tumor growth. BMP-6 is abnormally expressed in breast cancer cell lines; however, its function in promoting breast cancer development is unknown. Recombinant human BMP-6 is a 26.2 kDa homodimeric glycoprotein consisting of two 117 amino acid subunits, which correspond to amino acid residues 397 to 513 of the full-length BMP-6 precursor.

Biological Activity

Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED_{50} this effect is 0.03-0.06 $\mu\text{g/ml}$.

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is $<0.1 \text{ ng/}\mu\text{g}$ of protein ($<1\text{EU/}\mu\text{g}$).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

Precautions

Recombinant Human BMP-6 is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human BMP-6 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Recombinant Human BMP-6 - Images