

Certificate of Analysis

Recombinant Human BMP-6

Catalog# 120-06

Lot # 0609461-1

Expiration Date: July 2014

Source: HEK293 cells

Sequence: VSSASDYNSS ELKTACRKHE LYVSFQDLGW
QDWIAPKGY AANYCDGECS FPLNAHMNAT NHAIVQTLVH
LMNPEYVPKP CCAPTKLNAI SVLYFDDNSN VILKKYRNMV
VRACGCH

Synonyms: VGR

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.

Purity: $\geq 95\%$ by SDS-PAGE gel and HPLC analyses.

Endotoxin: Endotoxin level is < 0.1 ng / μ g of BMP-6 (< 1 EU/ μ g).

Formulation: Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Tris, pH 9.0.

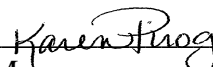
Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage/Stability: The lyophilized protein is stable at room temperature for up to 1 month. Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°C. Avoid repeated freeze/thaw cycles.

Biological activity: Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED₅₀ for this effect is 0.03-0.06 μ g/ml.

For a list of references using this product please visit our website at www.peprotech.com

Country of Origin: USA



QC Manager

Usage: For Research Use Only. Not for use in diagnostic or therapeutic procedures.