BMP-6 Human HEK293 cells

Product Data Sheet

Type: Recombinant
Source: HEK293 cells
Species: Human
Other names: VGR

Cat. No.:

RBG10087002	(2 µg)
RBG10087010	(10 µg)
RBG10087100	(100 µg)

Description

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. 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.

Research topic

Apoptosis, Bone and cartilage metabolism, Cardiovascular disease, Coronary artery disease

Amino Acid Sequence

VSSASDYNSS ELKTACRKHE LYVSFQDLGW QDWIIAPKGY AANYCDGECS FPLNAHMNAT NHAIVQTLVH LMNPEYVPKP CCAPTKLNAI SVLYFDDNSN VILKKYRNMV VRACGCH

Source

HEK293 cells

Purity

95%

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 µg/ml

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. 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/Shelf Life

-20°C

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