



Recombinant Human BMP-6

20160112BBBB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-378S
Size:	2 µg
Lot. No.:	According to product label

Sequence

VSSASDYNSS ELKTACRKHE LYVSFQDLGW QDWIIAPKGY
AANYCDGECs FPLNAHMNAT NHAIVQTLVH LMNPEYVPKP
CCAPTCLNAI SVLYFDDNSN VILKKYRNMV VRACGCH

Database References

Protein RefSeq:	NP_001709
Uniprot ID:	P22004
mRNA RefSeq:	NM_001718

Scientific Background

Gene-ID (NCBI):	654
Synonyms:	BMP6; VGR; VGR1

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.

Product Specifications

Expressed in	HEK293 cells
Purity	95% by SDS-PAGE & HPLC analysis
Structural Information	homodimer
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	117
MW:	26.2 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month, at 4°C for 6 months and stored at -20°C to -80°C up to December 2017. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

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.



AVOID REPEATED FREEZE AND THAW CYCLES!

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



ReliaTech GmbH

Specification/Data Sheet