

Product datasheet for **TP723046**

BMP6 (NM_001718) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human bone morphogenetic protein 6 (BMP6).
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	VSSASDYNSS ELKTACRKHE LYVSFQDLGW QDWIAPKGY AANYCDGECG FPLNAHMNAT NHAIVQTLVH LMNPEYVPKP CCAPTCLNAI SVLYFDDNSN VILKKYRNMV VRACGCH
Tag:	Tag Free
Predicted MW:	26.2 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 this effect is 0.03-0.06ug/mL.
Endotoxin:	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	NP_001709
Locus ID:	654
UniProt ID:	P22004 , Q4VBA3 , B4DUF7
RefSeq Size:	2943
Cytogenetics:	6p24.3
RefSeq ORF:	1539
Synonyms:	VGR; VGR1



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Summary:

This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein regulates a wide range of biological processes including iron homeostasis, fat and bone development, and ovulation. Differential expression of this gene may be associated with progression of breast and prostate cancer. Mutations in this gene may be associated with iron overload in human patients. [provided by RefSeq, Jul 2016]

Protein Families:

Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant signaling - TGFb/BMP signaling pathway

Protein Pathways:

Hedgehog signaling pathway, TGF-beta signaling pathway

Product images: