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Product datasheet for AR31155PU-N

BMP7 Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	BMP7 human recombinant protein, 10 µg
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	MANVAENSSS DQRQACKKHE LYVSFRDLGW QDWIIAPEGY AAYYCE GECA FPLNSYMNAT NHAIVQTLVH FINPETVPKP CCAPTQLNAI S VLYFDDSSN VILKKYRNMV VRACGCH
Predicted MW:	28.8 kDa
Purity:	>98% by SDS-PAGE & HPLC analysis
Buffer:	Presentation State: Purified State: Lyophilized purified protein Buffer System: PBS without stabilizers
Bioactivity:	Biological: Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED50 for this effect is 0.02-0.04 µg/ml.
Endotoxin:	< 0.1 ng per µg of BMP-7
Reconstitution Method:	Restore in PBS to a concentration not lower than 50 µg/ml. The lyophilized sTIE-2/hFc is soluble in water and most aqueous buffers.
Preparation:	Lyophilized purified protein
Protein Description:	Recombinant Human BMP-7 is a 28.8 kDa homodimeric glycoprotein consisting of two 116 amino acid subunits, which correspond to amino acid residues 316 to 431 of the full-length BMP-7 precursor.
Note:	Centrifuge vials before opening!
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001710
Locus ID:	655

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UniProt ID:	P18075
Cytogenetics:	20q13.31
Synonyms:	BMP-7, Bone morphogenetic protein 7, OP1, Osteogenic protein 1
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, which plays a role in bone, kidney and brown adipose tissue development. Additionally, this protein induces ectopic bone formation and may promote fracture healing 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:	Cytokine-cytokine receptor interaction, Hedgehog signaling pathway, TGF-beta signaling pathway