Recombinant Human BMP7, His-tagged

Cat. No. BMP7-26285TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature form Human BMP7 fused to His tag at C-terminal; amino acids 293-431 , 16.8kDa.
Species	Human
Source	E.coli
ProteinLength	293-431 a.a.
Description	The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskeletal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development and possible bone inductive activity.
Conjugation	HIS
Tissue specificity	Expressed in the kidney and bladder. Lower levels seen in the brain.
Form	Liquid
Purity	>95% by SDS-PAGE

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	Preservative: NoneConstituents: 10% Glycerol, 10mM Sodium citrate, pH 3.5
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MSTGSKQRSQ NRSKTPKNQE ALRMANVAEN SSSDQRQACK KHELYVSFRD LGWQDWIIAP EGYAAYYCEG ECAFPLNSYM NATNHAIVQT LVHFINPETV PKPCCAPTQL NAISVLYFDD SSNVILKKYR NMVVRACGCH LEHHHHHH
Sequence Similarities	Belongs to the TGF-beta family.
Full Length	Full L.

GENE INFORMATION

Gene Name	BMP7 bone morphogenetic protein 7 [Homo sapiens]
Official Symbol	BMP7
Synonyms	BMP7; bone morphogenetic protein 7; OP 1; osteogenic protein 1;
Gene ID	655
mRNA Refseq	NM_001719
Protein Refseq	NP_001710
MIM	112267
Uniprot ID	P18075

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Chromosome Location	20q13
Pathway	ALK2 signaling events, organism-specific biosystem; BMP receptor signaling, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Endochondral Ossification, organism-specific biosystem;
Function	cytokine activity; growth factor activity; protein binding; contributes_to protein binding;

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