

BMP7 recombinant protein

BMP7 (monomer), 293-431aa, Human, His tag, E Coli

CATALOG # AAA48509	HOST E Coli	APPLICATIONS SDS-Page
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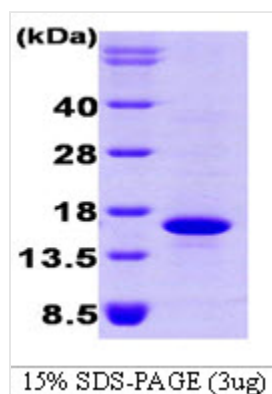
PRODUCT SYNONYMS

BMP7; BMP7 (monomer); 293-431aa; Human; His tag; E Coli; Bone morphogenetic protein 7; Osteogenic protein1; OP-1; Bone morphogenetic protein 7 BMP 7; Eptotermin alfa; OP 1; OP1.; BMP7 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 10mM Sodium citrate buffer (pH 3.5) containing 10% glycerol
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MSTGSKQRSQ NRSKTPKNQE ALRMANVAEN SSSDQRQACK KHELYVSFRD LGWQDWIAP EGYAAYYCEG ECAFPPLNSYM NATNHAIVQT LVHFINPETV PKPCCAPTQL NAISVLYFDD SSNVILKKYR NMVVRACGCH LEHHHHHH
Sequence Length	431
Applicable Applications for BMP7 recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for BMP7 recombinant protein	Bone morphogenic protein-7 (BMP-7/OP-1) is a member of the transforming growth factor-beta (TGF-beta) superfamily. Like other members of the BMPs family, it plays a role in calcium regulation and bone homeostasis. BMPs have been also shown to regulate the growth, differentiation, chemotaxis and apoptosis of various cell types, including mesenchymal cells, epithelial cells, hematopoietic cells and neuronal cells. BMP7 also has the potential for treatment of chronic kidney disease. Recombinant human BMP-7 protein was expressed in E Coli and purified by using conventional chromatography techniques, after refolding of the isolated inclusion body in renaturation buffer.
Product Categories/Family for BMP7 recombinant protein	Hormones & Cytokines
References	Gonzalez EA., et al. (2002) Kidney Int. 61 (4): 1322-31; Tseng YH., et al. (2008) Nature. 454 (7207): 1000-4;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502427
NCBI GeneID	655
NCBI Accession #	NP_001710
NCBI GenBank Nucleotide #	NM_001719.2
UniProt Accession #	P18075; Q9H512; Q9NTQ7
Molecular Weight	16.8 kDa (148 aa), confirmed by MALDI-TOF.
NCBI Official Full Name	bone morphogenetic protein 7 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 7
NCBI Official Symbol	BMP7
NCBI Official Synonym Symbols	OP-1
NCBI Protein Information	bone morphogenetic protein 7
UniProt Protein Name	Bone morphogenetic protein 7
UniProt Gene Name	BMP7
UniProt Synonym Gene Names	OP1; BMP-7; OP-1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.