Active Recombinant Human BMP7 Protein, Animal Free

Cat. No. BMP7-05H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP7 Protein without tag was expressed in Human cells. Animal Free and Xeno Free
Species	Human
Source	Human Cells
Description	Bone morphogenetic protein 7 (BMP-7), also known as osteogenic protein 1 (OP1) is a member of transforming growth factor β family that includes more than 20 structurally related bone growth factors. BMP-7 plays an important role in cartilage and bone formation. It also plays a role in calcium regulation and kidney development. Mature human BMP-7 is usually a homodimer consisting of two antiparallel monomers of 139 amino acids. Dimerization is facilitated by a disulfide bridge formed between the monomer, which contains three intrachain disulfide bridges arranged in a cysteine knot motif.
Bio-activity	The activity was measured by its ability to induce alkaline phosphatase production in the ATDC-5 cell line (Mouse chondrogenic cell line).
Molecular Mass	30-38 kDa
Endotoxin	<0.5 EU/ μg
Purity	High Purity, >95% by SDS-PAGE

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Stability	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -80 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS without carrier protein
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 4 mM HCl containing at least 0.1% human or bovine serum albumin.

GENE INFORMATION

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

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