

Active Recombinant Human BMP2 Protein, Animal Free

Cat. No. BMP2-03H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP2 Protein without tag was expressed in Human cells. Animal Free and Xeno Free
Species	Human
Source	Human Cells
Description	Bone morphogenetic protein 2 (BMP-2) is a member of transforming growth factor β family that includes more than 20 structurally related bone growth factors. BMP-2 is expressed abundant in lung, spleen and colon and in low but significant levels in heart, brain, placenta, liver, skeletal muscle, kidney, pancreas, prostate, ovary and small intestine. BMP-2 plays an important role in inducing bone and cartilage formation. Mature human BMP-2 is usually a homodimer consisting of two monomers of 114 amino acids. Dimerization is facilitated by a disulfide bridge formed between the monomer, which contains three intrachain disulfide bridges arranged in a cystine 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/ μ g
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	BMP2 bone morphogenetic protein 2 [Homo sapiens (human)]
Official Symbol	BMP2
Synonyms	BMP2; bone morphogenetic protein 2; BMP2A; BMP-2A; bone morphogenetic protein 2A; BDA2;
Gene ID	650
mRNA Refseq	NM_001200
Protein Refseq	NP_001191
MIM	112261
UniProt ID	P12643