

Active Recombinant Human BMP5 Protein

Cat. No. BMP5-014H Lot. No. (See product label)

SPECIFICATION

Product Overview	The mature recombinant human BMP-5 protein consists of 148 amino acids (317-454) without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	317-454 a.a.
Description	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 and cartilage development. Polymorphisms in this gene may be associated with osteoarthritis in human patients. This gene is differentially regulated in multiple human cancers. This gene encodes distinct protein isoforms that may be similarly proteolytically processed.
Bio-activity	Measured by its ability to induce alkaline phosphatase production by ATDC5 mouse chondrogenic cells. The ED50 for this effect is 0.5-2 µg/mL.
Molecular Mass	19 kDa
Product-Related	317-454

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Proteins

Endotoxin < 0.1 EU/μg of the protein as determined by the LAL method

Purity > 95 % as determined by SDS-PAGE

Storage At -80 centigrade. Avoid repeated freeze-thaw cycles.

Storage Buffer PBS

GENE INFORMATION

Gene Name BMP5 bone morphogenetic protein 5 [Homo sapiens (human)]

Official Symbol BMP5

Synonyms BMP5; bone morphogenetic protein 5; bone morphogenetic protein 5

Gene ID 653

mRNA Refseq NM_021073

Protein Refseq NP_066551

MIM 112265

UniProt ID P22003

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