

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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