

Active Recombinant Human BMP5 Protein (Val341-His454), C-His tagged, Animal-free, Carrier-free

Cat. No. BMP5-280H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP5 Protein (Val341-His454) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Val341-His454
Description	Bone Morphogenetic Protein-5 (BMP-5) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- β family. BMP-5 can bind with TGF- β receptors and trigger SMAD protein signal transduction. It is involved in many negatively regulated physiological processes, such as the aldosterone biosynthetic process and epithelial to mesenchymal transition. BMP-5 also plays a vital role in cartilage synthesis.
Form	Lyophilized
Bio-activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 0.17 μ g/mL.
Molecular Mass	The protein has a calculated MW of 16.57 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 3.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in 4 mM HCl to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	BMP5 bone morphogenetic protein 5 [Homo sapiens (human)]
Official Symbol	BMP5
Synonyms	BMP5; bone morphogenetic protein 5; BMP-5; MGC34244;
Gene ID	653
mRNA Refseq	NM_021073

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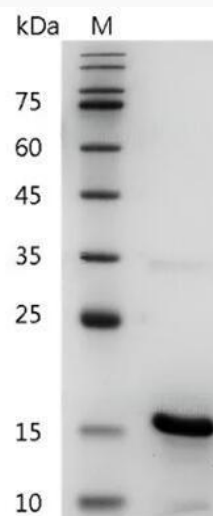
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Protein Refseq NP_066551

MIM 112265

UniProt ID P22003

**SDS-PAGE analysis
of recombinant
human BMP-5.**



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