

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

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human BMP5 Protein (Val341-His454) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Val341-His454
<b>Description</b>	Bone Morphogenetic Protein-5 (BMP-5) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- $\beta$ family. BMP-5 can bind with TGF- $\beta$ 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.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 0.17 $\mu$ g/mL.
<b>Molecular Mass</b>	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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<b>Endotoxin</b>	< 0.1 EU/μg of the protein by the LAL method.
<b>Purity</b>	>98% as determined by SDS-PAGE analysis.
<b>Storage</b>	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.
<b>Storage Buffer</b>	Lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 3.5.
<b>Reconstitution</b>	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.
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">BMP5 bone morphogenetic protein 5 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">BMP5</a>
<b>Synonyms</b>	BMP5; bone morphogenetic protein 5; BMP-5; MGC34244;
<b>Gene ID</b>	<a href="#">653</a>
<b>mRNA Refseq</b>	<a href="#">NM_021073</a>

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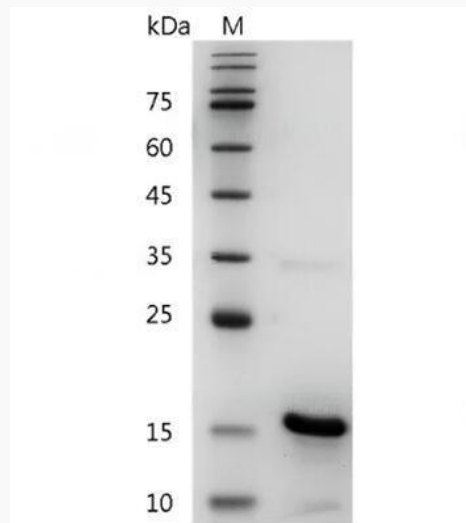
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**Protein Refseq** NP\_066551

**MIM** 112265

**UniProt ID** P22003

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



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