

## Active Recombinant Human BMP8B Protein (Ala264-His402), N-His tagged, Animal-free, Carrier-free

Cat. No. BMP8B-283H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human BMP8B Protein (Ala264-His402) with N-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>	Ala264-His402
<b>Description</b>	Bone Morphogenetic Protein-8B (BMP-8B) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- $\beta$ family. BMP-8B can bind with the TGF- $\beta$ receptor and is involved in SMAD protein signal transduction. BMP-8B plays a role in bone and cartilage development. It is expressed in brown adipose tissues and the hypothalamus, which can affect thermogenesis and susceptibility to obesity.
<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 < 21.8 ng/mL.
<b>Molecular Mass</b>	The protein has a calculated MW of 16.48 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).
<b>Endotoxin</b>	< 0.01 EU/ $\mu$ g of the protein by the LAL method.

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<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>	<b>BMP8B bone morphogenetic protein 8b [ Homo sapiens (human) ]</b>
<b>Official Symbol</b>	<b>BMP8B</b>
<b>Synonyms</b>	BMP8B; bone morphogenetic protein 8b; BMP8, bone morphogenetic protein 8 (osteogenic protein 2); bone morphogenetic protein 8B; OP 2; osteogenic protein 2; BMP-8; BMP-8B; bone morphogenetic protein 8 (osteogenic protein 2); dJ118J21.1 (bone morphogenetic protein 8 (osteogenic protein 2)); OP2; BMP8; MGC131757;
<b>Gene ID</b>	<b>656</b>
<b>mRNA Refseq</b>	<b>NM_001720</b>

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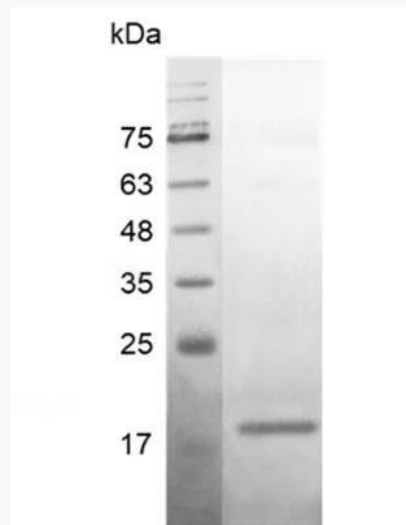
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP\_001711

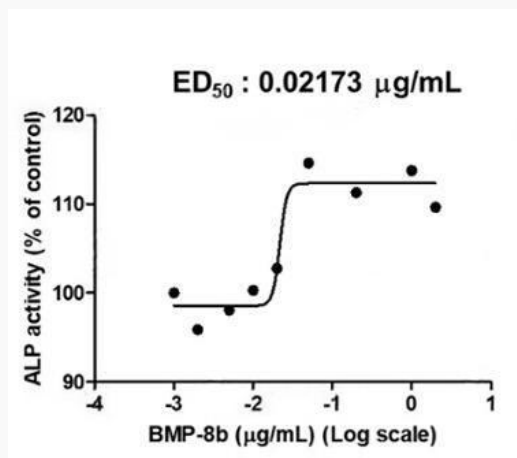
MIM 602284

UniProt ID P34820

SDS-PAGE analysis  
of recombinant  
human BMP-8b.



Activity



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Human BMP-8b, His Tag, E. coli (LDG106PHE) induced alkaline phosphatase production by ATDC5 cells, with the ED50 at 21.73 ng/mL.

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