

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

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

SPECIFICATION

Product Overview	Recombinant Human BMP8B Protein (Ala264-His402) with N-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Ala264-His402
Description	Bone Morphogenetic Protein-8B (BMP-8B) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- β family. BMP-8B can bind with the TGF- β 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.
Form	Lyophilized
Bio-activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 21.8 ng/mL.
Molecular Mass	The protein has a calculated MW of 16.48 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.01 EU/ μ g of the protein by the LAL method.

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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	BMP8B bone morphogenetic protein 8b [Homo sapiens (human)]
Official Symbol	BMP8B
Synonyms	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;
Gene ID	656
mRNA Refseq	NM_001720

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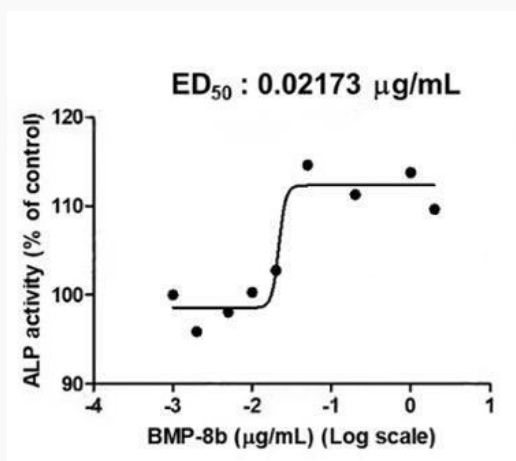
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Protein Refseq NP_001711

MIM 602284

UniProt ID P34820

Activity



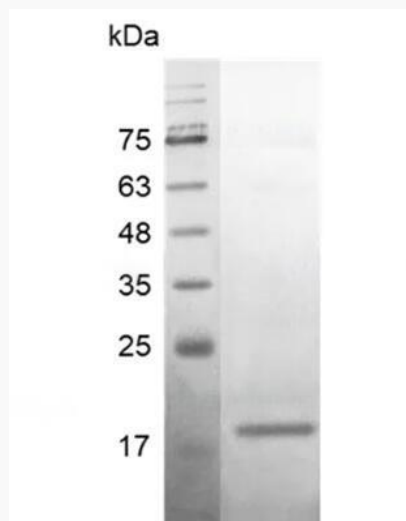
Human BMP-8b, His Tag, E. coli (LDG106PHE) induced alkaline phosphatase production by ATDC5 cells, with the ED50 at 21.73 ng/mL.

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



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