

Active Recombinant Human BMP8A Protein (Ala264-His402), C-His tagged, Animal-free, Carrier-free

Cat. No. BMP8A-161H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human BMP8A Protein (Ala264-His402) with C-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-8 (BMP-8) is an extracellular multifunctional cytokine that is also a member of the TGF- β family. BMP-8 can bind with TGF- β receptor and is involved in SMAD protein signal transduction. In addition, BMP-8 participates in the downregulation of insulin secretion that lets the heat stabilize. Moreover, it participates in ossification and is essential to cartilage and hard bone development.
Form	Lyophilized
Bio-activity	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is 10-19.4 ng/mL.
Molecular Mass	The protein has a calculated MW of 16.61 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).
Endotoxin	< 0.1 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	BMP8A bone morphogenetic protein 8a [Homo sapiens (human)]
Official Symbol	BMP8A
Synonyms	BMP8A; bone morphogenetic protein 8a; bone morphogenetic protein 8A; BMP-8A; FLJ14351; FLJ45264;
Gene ID	353500
mRNA Refseq	NM_181809
Protein Refseq	NP_861525

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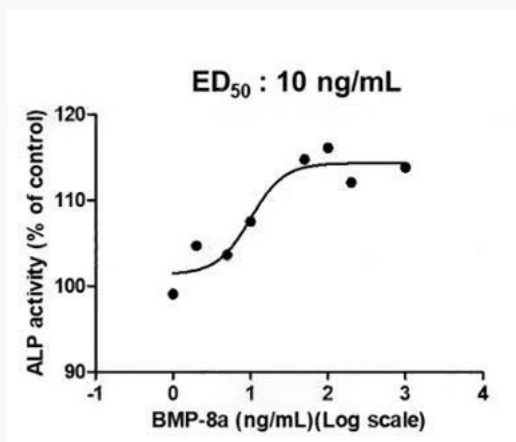
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UniProt ID

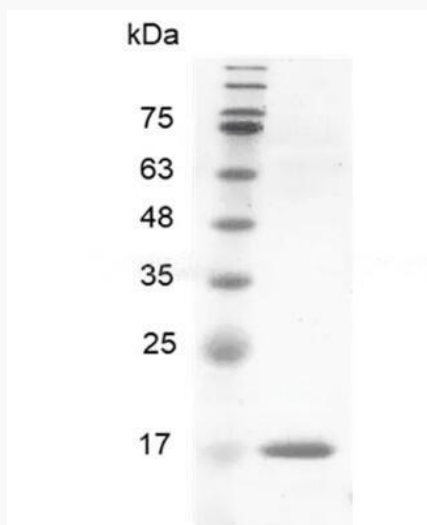
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Activity



Human BMP-8a, His Tag, E. coli (LDG105PHE) induced alkaline phosphatase production by ATDC5 cells, with the ED50 at 10 ng/mL.

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



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