

## Recombinant Active Human BMP8B Protein, His-tagged(N-ter)

Cat. No. BMP8B-19H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Active Human BMP8B Protein with His tag (N-ter) was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	The bone morphogenetic proteins (BMPs) are a family of secreted signaling molecules that can induce ectopic bone growth. Many BMPs are part of the transforming growth factor-beta (TGFB) superfamily. BMPs were originally identified by an ability of demineralized bone extract to induce endochondral osteogenesis in vivo in an extraskelatal site. Based on its expression early in embryogenesis, the BMP encoded by this gene has a proposed role in early development. In addition, the fact that this BMP is closely related to BMP5 and BMP7 has led to speculation of possible bone inductive activity. [provided by RefSeq, Jul 2008]
<b>Form</b>	Powder
<b>Bio-activity</b>	Determined by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED50 for this effect is < 21.8 ng/mL.
<b>AA Sequence</b>	AVRPLRRRQPKKSNELPQANRLPGIFDDVHGSHGRQVCRRHELYVSFQDLGWLDW VIAPQGYSAYYCEGECSFPLDSCMNATNHAILQSLVHLMMPDAVPKACCAPTKLSAT SVLYYDSSNNVILRKHRNMVVKACGCH

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<b>Endotoxin</b>	Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.
<b>Purity</b>	> 98% (by SDS-PAGE)
<b>Applications</b>	SDS-PAGE
<b>Notes</b>	For laboratory research only, not for drug, diagnostic or other use.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening.
<b>Storage Buffer</b>	20 mM Sodium citrate (pH 3.5) and 0.2 M NaCl.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.

## GENE INFORMATION

<b>Gene Name</b>	<b>BMP8B bone morphogenetic protein 8b [ Homo sapiens ]</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>

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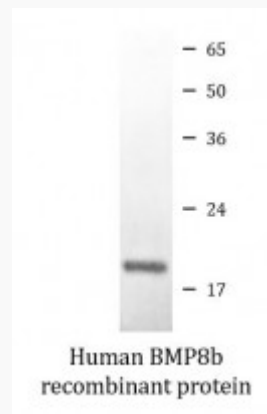
mRNA Refseq [NM\\_001720](#)

Protein Refseq [NP\\_001711](#)

MIM [602284](#)

UniProt ID [P34820](#)

#### SDS-PAGE



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