

Human BMP-8b, His Tag, E. coli

Catalog Number	LDG106PHE
Package	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Specifications

Species of Origin

Human

Affinity Tag

His Tag (N-term)

Purity

>98% as determined by SDS-PAGE analysis.

Activity

Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <21.8 ng/mL.

Form

Lyophilized

Expression system

Escherichia coli

Buffer

Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 4.5.

Molecular weight

The protein has a calculated MW of 16.48 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).

Endotoxin level

<0.01 EU per 1 µg of the protein by the LAL method.

Background

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Background

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.

Uniprot ID

#P34820

Synonyms

Osteogenic protein 2, OP-2, Bone morphogenetic protein 8B

Sequence Note

Ala264-His402

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in 4 mM HCl to a concentration of 200 μ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Stability & Storage

This product is stable after storage at:

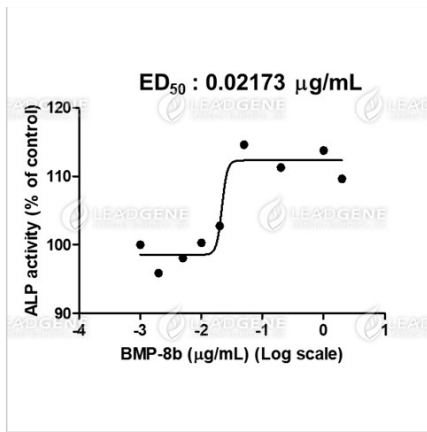
- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

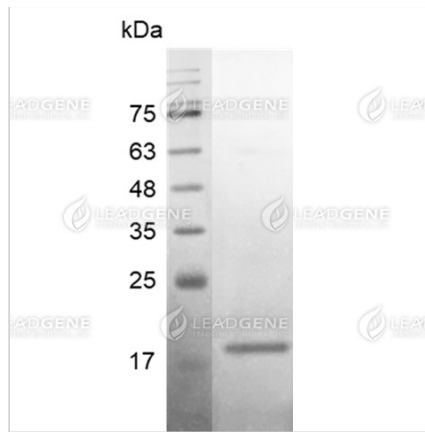
Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image



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



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

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