

Human BMP-3, His Tag, E. coli

Catalog Number	LDG100PHE
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 (C-term)

Purity

>95% as determined by SDS-PAGE analysis.

Activity

Measure by its ability to inhibit BMP-2-induced alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is < 10 µg/mL.

Form

Lyophilized

Expression System

Escherichia coli

Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.

Molecular weight

The protein has a calculated MW of 13.34 kDa. The protein migrates as 14 kDa under reducing condition (SDS-PAGE analysis).

Endotoxin Level

<0.1 EU per 1 µg of the protein by the LAL method.

Background

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Background

Bone Morphogenetic Protein-3 (BMP-3) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- β family. BMP-3 can bind with TGF- β receptor and participate in SMAD protein signal transduction through triggering pathway-restricted SMAD protein phosphorylation. The primary function of BMP-3 is osteoblast differentiation and Induces bone formation.

Uniprot ID

#P12645

Synonyms

Bone morphogenetic protein 3A, BMP-3A, Osteogenin, Bone morphogenetic protein 3

Sequence Note

Gln363-Arg472

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in 4 mM HCl to a concentration not less than 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 2 weeks 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

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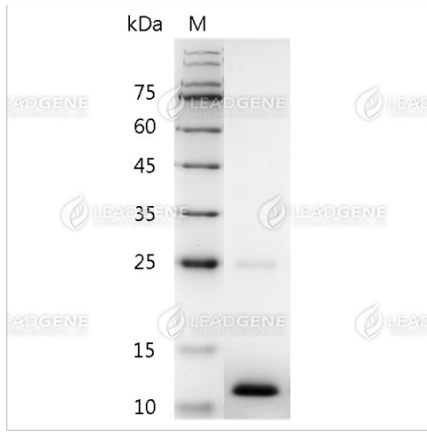
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SDS-PAGE analysis of recombinant human BMP-3.

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