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

Expression System

Escherichia coli

Affinity Tag

His Tag (C-term)

Storage Buffer

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

Purity

>95% as determined by SDS-PAGE analysis.

Molecular weight

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

Activity

Measure by its ability to inhibit BMP-2-induced alkaline phosphatase production by ATDC5 cells. The ED_{50} for this effect is < 10 μg/mL.

Endotoxin Level

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

Form

Lyophilized

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.

Synonyms

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

Uniprot ID

#P12645

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 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°C or lower for long term storage.

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.

Image

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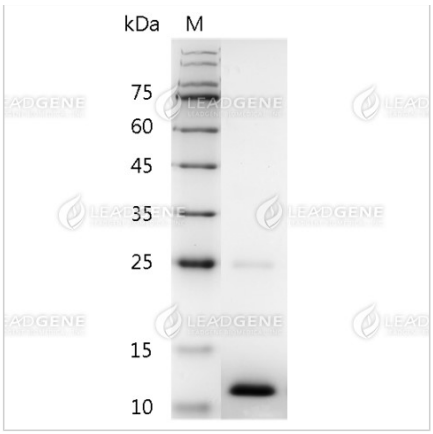

SDS-PAGE analysis of recombinant human BMP-3.

Disclaimer : For Research Use or Further Manufacturing Only.

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