Human BMP-5, His Tag, E. coli

Catalog Number	LDG102PHE
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 containing 20 mM sodium citrate and 0.2 M NaCl, pH 4.5.

Purity

>98% as determined by SDS-PAGE analysis.

Molecular weight

The protein has a calculated MW of 16.57 kDa. The protein migrates as 17 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED_{50} for this effect is <0.17 μg/mL.

Endotoxin Level

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

Form

Lyophilized

Background

Tainan Headquarters
+886-6-2536677
bd@leadgene.com.tw

Innovation & Research Center
+886-2-27065528

CLD Center
+886-6-2536677

Background

Bone Morphogenetic Protein-5 (BMP-5) is an extracellular multifunctional signaling cytokine that is also a member of the TGF-β family. BMP-5 can bind with TGF-β receptors and trigger SMAD protein signal transduction. It is involved in many negatively regulated physiological processes, such as the aldosterone biosynthetic process and epithelial to mesenchymal transition. BMP-5 also plays a vital role in cartilage synthesis.

Synonyms

Bone morphogenetic protein 5

Uniprot ID

#P22003

Sequence Note

Val341-His454

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 1 month under sterile conditions after reconstitution.

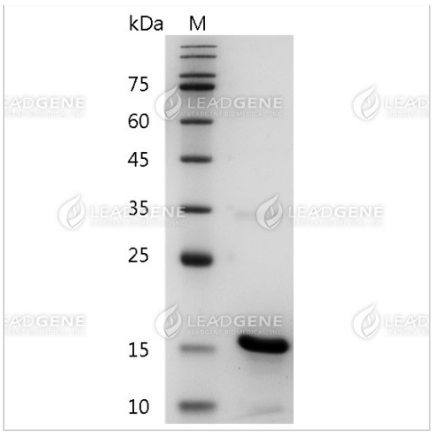
Avoid repeated freeze/thaw cycles.

Image

Tainan Headquarters
+886-6-2536677
bd@leadgene.com.tw

Innovation & Research Center
+886-2-27065528

CLD Center
+886-6-2536677



SDS-PAGE analysis of recombinant human BMP-5.

Disclaimer : For Research Use or Further Manufacturing Only.

Tainan Headquarters
+886-6-2536677
bd@leadgene.com.tw

Innovation & Research Center
+886-2-27065528

CLD Center
+886-6-2536677