

Human GM-CSF, His Tag, E. coli

Catalog Number LDG044PHE

Package

5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit our website.



Specifications

Species of Origin	Expression System
Human	Escherichia coli
Affinity Tag	Storage Buffer
His Tag (N-term)	Lyophilized from a 0.2 μ m filtered solution of
	PBS, pH 8.0.
Purity	Molecular weight
>98% as determined by SDS-PAGE analysis.	The protein has a calculated MW of 15.4 kDa.
	The protein migrates as 15 kDa under reducing
	condition (SDS-PAGE analysis).
Activity	Endotoxin Level
Measure by its ability to induce TF-1 cells	<0.1 EU per 1 μ g of the protein by the LAL
proliferation. The ED ₅₀ for this effect is < 80	method.
pg/mL. The specific activity of recombinant	
human GM-CSF is approximately $>1 \times 10^7$	
IU/mg.	

Form

Lyophilized

Background

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Background

Granulocyte-macrophage colony-stimulating factor (GM-CSF) was first identified as a Growth Factors due to its ability to induce proliferation and differentiation of bone marrow progenitors into granulocytes and macrophages. GM-CSF is produced by multiple cell types including activated T cells, B cells, macrophages, endothelial cells and fibroblasts upon receiving immune stimuli. GM-CSF stimulates stem cells to produce granulocytes and monocytes functions as a cytokine.

Synonyms

Granulocyte-macrophage colony-stimulating factor, Colony-stimulating factor , CSF, Molgramostin, Sargramostim

Sequence Note

Ala18-Glu144

Uniprot ID

#P04141

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient redissolved.

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

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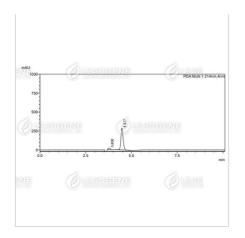
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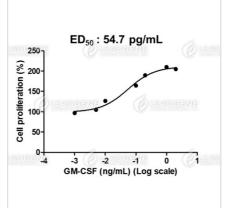
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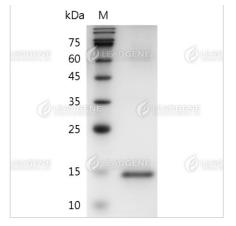
Datasheet





The purity of recombinant human GM-CSF is greater than 95% as determined by RP-HPLC.

Human GM-CSF, His Tag, E. coli (LDG044PHE) induced TF-1 cell proliferation, with the ED50 at 54.7 pg/mL.



SDS-PAGE analysis of recombinant human GM-CSF.

Disclaimer : For Research Use or Further Manufacturing Only.

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