

Recombinant Human GM-CSF / Granulocyte-Macrophage

Colony-Stimulating Factor, Animal Free & Carrier Free

Cat #: C-CYP330 Size: 5µg, 20µg, 100µg, 500µg, 1mg Shipping: Blue Ice

Product Overview

Granulocyte-macrophage colony- stimulating factor (GM-CSF), also known as colony-stimulating factor 2(CSF2), is a monomeric glycoprotein secreted by macrophages, T cells, mast cells, natural killer cells, endothelial cells and fibroblasts that functions as a cytokine. GM-CSF also plays a role in embryonic development by functioning as an embryokine produced by reproductive tract.

Product Information

Source: Escherichia Coli.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is <80 pg/mL. The spcific activity of recombinant human GM-CSF is approximately $>1\times10^7$ IU/mg.

Endotoxin: <0.1EU per 1 μ g of the protein by the LAL method.

Amino acid sequence:

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APARSPSPSTQPWEHVNAIQEARRLLNLSRDTAAEMNETVEVISEMFDLQEPTCLQTRLELYKQGLRGSLTKLKGPLTMMASHYKQHCPPT

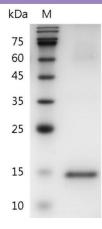
<u>PETSCATQIITFESFKENLKDFLLVIPFDCWEPVQE</u> with polyhistidine tag at the N-terminus.
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Formulation: Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 8.0.









SDS-PAGE analysis of recombinant human GM-CSF

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.

2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.

3. The reconstituted solution can be stored at 2-8°C for up to 1 week.

4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 μ g/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.

