Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF), Human



Cat. No. SR215-0100 Size: 100 μg
Cat. No. SR215-0020 Size: 20 μg
Cat. No. SR215-0005 Size: 5 μα

Description

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 the reproductive tract.

Expression System

Escherichia coli

Sequence

APARSPSPSTQPWEHVNAIQEARRLLNLSRDTAAEMNETVEVISEMFDLQEPTC LQTRLELYKQGLRGSLTKLKGPLTMMASHYKQHCPPTPETSCATQIITFESFKEN LKDFLLVIPFDCWEPVQE with polyhistidine tag at the N-terminus.

Species Human

Tag polyhistidine tag at the N-terminus

Endotoxin Level

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

Activity

Measure by its ability to induce TF-1 cells proliferation.

The ED₅o for this effect is <80 pg/mL.

The specific activity of recombinant human GM-CSF is approximately >1 x 10⁷ IU/mg.

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

Formulation

The protein was lyophilized from a solution containing 1X PBS, pH 8.0.

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 μ g/mL and incubate the stock solution for at least 20 minutes to ensure sufficient re-dissolved.

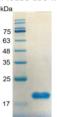
Storage

Lyophilized protein should be stored at -20°C.

This product is stable for one year upon receipt, when handled and stored as instructed. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C. Avoid repeated freeze/thaw cycles.

Note

Please use within one month after protein reconstitution.



SDS-PAGE analysis of recombinant human GM-CSF

Related Ordering Information

Cat. No.	Description	Size
CC103-0500	DMEM, High Glucose	500 ml
CC109-0500	RPMI 1640	500 ml
CC113-0500	DMEM/F-12	500 ml
PC203-0600	60mm Tissue Culture Dish, with Gripping Ring	600 ea
PC273-0100	75T Flask, Plug Seal Cap	100 ea

Caution

- During operation, always wear a lab coat, disposable gloves, and protective equipment.
- Research Use Only. Not intended for any animal or human therapeutic or diagnostic uses.