

RMCH117

Recombinant G-CSF (Granulocyte colony-stimulating factor), Human ,AF



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5ug;20ug;100ug;500ug;

Synonym/Alternative name(s):

CSF-3, MGI-1G, GM-CSF beta, pluripoietin

Activity:

Measure by its ability to induce proliferation in NFS-60 cells.

The ED50 for this effect is <50 pg/mL.

The specific activity of recombinant human G-CSF is > 2 x 10⁷ IU/mg.

Protein Description:

G-CSF is a hematopoietic growth factor. It can activate the progress that committed progenitor cells develop to neutrophils and enhance the functional activities of the mature end-cell. It is secreted in response to specific stimulation by a variety of cells, including bone marrow stroma, macrophages, endothelial cells and fibroblasts. In clinical treatment, G-CSF is used to facilitate hematopoietic recovery after bone marrow transplantation.

Protein Accession : P09919.1

Gene ID : 1440

Expression Sequence:

TPLGPASSLPQSFLKCLEQVRKIQGDGAALQEKLKATYKLCHEPELVLLGHSLGIPWAPLSSCPSQALQLAGCLSQLHSGFLYQGLLQAL
EGISPELGPTLDTLQLDVADEFATTIWQQMEELGMAPALQPTQGAMPAFASAFQRRAGGVLVASHLQSFLEVSYSRVLRLHAQP with
polyhistidine tag at the N-terminus.

Fusion tag : His-tag?at?the?N-terminus

Species : Human

Reactivity : Human

Expression Host : Escherichia coli

Source : E. coli

Purity/method:

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

Endotoxin level:

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

Calculated Molecular Weight : 19.48 kDa

Formulation:

The protein was lyophilized from a solution containing 1X PBS, pH 7.4.

Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping : Blue Ice

Stability and Storage:

Lyophilized protein should be stored at -20°C for 1 year.

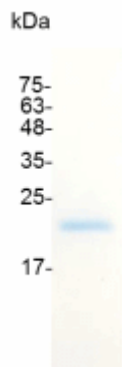
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category : Cytokines

Application : Cell culture, Elisa

Image:



SDS- PAGE analysis of recombinant human G-CSF