

Recombinant Mouse G-CSF (C-6His)

Catalog No: CB53

Description Recombinant Mouse Granulocyte Colony-Stimulating Factor is produced by our Mammalian expression system and the target gene encoding Val31-Ala208 is expressed with a 6His tag at the C-terminus.

Source Human Cells

Alternative name Granulocyte colony-stimulating factor; Csf3; G-CSF

Accession No. P09920

Formulation Lyophilized from a 0.2 µm filtered solution of 10mM Sodium Citrate, 0.1% Tween 20, pH 3.5.

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Quality Control Purity: Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Shipping The product is shipped at ambient temperature.
Upon receipt, store it immediately at the temperature listed below.

Storage Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Background

Granulocyte colony-stimulating factor (G-CSF) is a growth factor and an essential cytokine which belongs to the IL-6 superfamily. Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. G-CSF binding to its receptor G-CSF-R which belongs to the cytokine receptor type I family depends on the interaction of alpha-helical motifs of the former and two fibronectin type III as well as an immunoglobulin-like domain of the latter. G-CSF is a cytokine that have been demonstrated to improve cardiac function and perfusion in myocardial infarction. And it was initially evaluated as a stem cell mobilizer and erythropoietin as a cytoprotective agent.

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