

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

v. 231001

Catalog number	C01118-5UG / C01118-20UG / C01118-100UG
Package	5 µg / 20 µg / 100 µg
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.
Source	<i>Escherichia coli</i>
Sequence	TPLGPASSLPQSFLKCLEQVRKIQGDGAALQEKLKCATYKLCHPEELVLLGHSL GIPWAPLSSCPSQALQLAGCLSQLHSGFLYQGLLQALEGISPELGPDTLDTLQL DVADFATTIWQQMEELGMAPALQPTQGAMPAFASAFQRRAGGVLVASHLQSF LEVSYRVLRLHAQP with 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 proliferation in NFS-60 cells. The ED ₅₀ for this effect is <50 pg/mL. The specific activity of recombinant human G-CSF is > 2 x 10 ⁷ IU/mg.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: <ul style="list-style-type: none"> • -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.

kDa

75-
63-
48-
35-
25-
17-



SDS-PAGE analysis of recombinant human G-CSF

For research use only.