

Granulocyte Colony-Stimulating Factor (G-CSF)

CATALOG NUMBER: G-CSF-010P, 10 µg

Introduction	Granulocyte colony-stimulating factor (G-CSF or GCSF) is a colony-stimulating factor hormone. G-CSF is also known as colony-stimulating factor 3 (CSF 3). G-CSF is a glycoprotein, growth factor and cytokine produced by a number of different tissues to stimulate the bone marrow to produce granulocytes and stem cells. G-CSF then stimulates the bone marrow to release them into the blood. G-CSF also stimulates the survival, proliferation, differentiation, and function of neutrophil precursors and mature neutrophils.
Description	Recombinant human G-CSF produced in E.coli is a single, non-glycosylated, polypeptide chain containing 175 amino acids, two pairs of disulfide bonds and having a molecular mass of approximately 18.8kD.
Source	<i>E. coli.</i>
Applications	Western blot standard, antibody ELISA, antigen, etc.
Purity	≥ 97% purity (by SDS PAGE and HPLC)
Endotoxin Level	≤1 EU/mg, determined by the LAL method
Biological Activity	Measured in a cell proliferation assay using NFS-60 cell line. The specific activity shall be not less than 0.8×10^8 IU/mg.
Formulation	Lyophilized from a 0.2µm filtered solution in 10mM Phosphate Buffer. Reconstitute with double distilled water at a concentration of no less than 1 µg/ml with 0.1% human serum albumin (A highly purified plant-derived human serum albumin is strongly suggested to be used, Cat# HAS-1r) or bovine serum albumin as a stock.
Storage	Stable for 6-months from the date of shipment when kept at -20 °C or -70 °C. Upon reconstitution, it can be stored at 4 °C for at least one month or -20 °C for at least three months. Avoid repeated freeze-thaw cycles.
Usage	This product is produced for LABORATORY RESEARCH USE ONLY. For other applications, such as cGMP quality G-CSF, please contact us by email.