

Animal-Free Recombinant Human G-CSF

Catalog # PBG10544

Specification

Animal-Free Recombinant Human G-CSF - Product Information

Animal-Free Recombinant Human G-CSF - Additional Information

Description

G-CSF is a hematopoietic growth factor that stimulates the development of committed progenitor cells to neutrophils and enhances the functional activities of the mature end-cell. It is produced in response to specific stimulation by a variety of cells including macrophages, fibroblasts, endothelial cells and bone marrow stroma. G-CSF is being used clinically to facilitate hematopoietic recovery after bone marrow transplantation. Human and murine G-CSF are cross-species reactive. Recombinant human G-CSF is an 18.7 kDa protein consisting of 174 amino acid residues.

BiologicalActivity

The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of murine NFS-60 cells is ≤ 0.1 ng/ml, corresponding to a specific activity of $\geq 1 \times 10$ ⁷ units/mg.

Authenticity Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin Endotoxin level is <0.1 ng/ μ g of protein (<1EU/ μ g).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage -20°C

Precautions

Animal-Free Recombinant Human G-CSF is for research use only and not for use in diagnostic or therapeutic procedures.

Animal-Free Recombinant Human G-CSF - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation



• <u>Flow Cytomety</u> • <u>Cell Culture</u> Animal-Free Recombinant Human G-CSF - Images