

# Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

# Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# DATA SHEET

### GFH72

### Recombinant Human G-CSF

#### Description

Granulocyte-Colony Stimulating Factor (G-CSF) is a cytokine that functions as a potent inducer of neutrophilic granulocyte proliferation, terminal differentiation, and activation. G-CSF synthesis occurs in monocyte, macrophage, epithelial, endothelial, and fibroblast cells after activation by bacterial endotoxins, Tumor Necrosis Factor  $\alpha$  (TNF- $\alpha$ ), Interleukin-1 (IL-1), or Interleukin-17 (IL-17). The functional activity of G-CSF is mediated through the granulocyte colony-stimulating factor receptor (G-CSF-R) to activate JAK/STAT and MAPK signal transduction pathways. G-CSF also promotes neurogenesis and inhibits neuronal apoptosis. Human and mouse G-CSF proteins are cross-reactive.

Length175 aaMolecular Weight18.8 kDaSourceE. coliAccession NumberP09919

Purity ≥95% determined by reducing and non-reducing SDS-PAGE

#### **Specifications**

GM-CSFβ, pluripoietin, colony stimulating factor 3 (granulocyte), lenograstim, filgrastim, GCSF2, MGC45931,

C17orf33, chromosome 17 open reading frame 33, CSF3OS, MGI-1G

Biological Activity Human G-CSF is fully biologically active when compared to standard. The activity is determined by the

proliferation of NFS-60 cells and it is typically less than 50 pg/ml. This corresponds to an expected specific activity

of  $2 \times 10^7$  units/mg.

Endotoxin Level ≤1.00 EU/μg as measured by kinetic LAL

Formulation Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

AA Sequence MTPLGPASSL PQSFLLKCLE QVRKIQGDGA ALQEKLCATY KLCHPEELVL LGHSLGIPWA PLSSCPSQAL

QLAGCLSQLH SGLFLYQGLL QALEGISPEL GPTLDTLQLD VADFATTIWQ QMEELGMAPA LQPTQGAMPA

FASAFQRRAG GVLVASHLQS FLEVSYRVLR HLAQP

#### **Preparation and Storage**

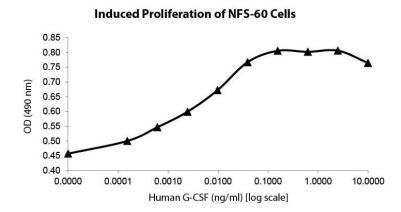
#### Reconstitution

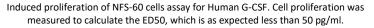
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate

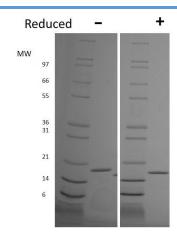
#### **Stability and Storage**

- 12 months from date of receipt when stored at -20°C to -80°C as supplied.
- 1 month when stored at 4°C after reconstituting as directed.
- 3 months when stored at -20°C to -80°C after reconstituting as directed.

#### Data







Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1  $\mu$ g of protein was loaded in each lane. Human G-CSF has a predicted Mw of 18.8 kDa.