

Datasheet for ABIN6699722

G-CSF Protein**2** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	G-CSF (CSF3)
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Mouse Granulocyte Colony Stimulating Factor Recombinant Protein
Purification:	Granulocyte Colony Stimulating Factor purity was determined to be greater than 98% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	98,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of mouse M-NFS-60 cells and is typically less than 10-60 ng/mL.

Target Details

Target:	G-CSF (CSF3)
Alternative Name:	Csf3 (CSF3 Products)
Background:	Synonyms: CSF-3, MGI-1G, GM-CSF β , pluripoietin

Target Details

Background: Granulocyte Colony-Stimulating Factor, or G-CSF, is a growth factor that is considered the most potent inducer of terminal differentiation to granulocytes and macrophages of leukemic myeloid cell lines. The synthesis of G-CSF can be induced by bacterial endotoxins, TNF, IL-1 and GM-CSF. Prostaglandin E2 inhibits the synthesis of G-CSF, while in epithelial, endothelial, and fibroblastic cells secretion of G-CSF is induced by IL-17. Human and mouse G-CSF are cross-reactive. Recombinant mouse G-CSF is a non-glycosylated protein, containing 179 amino acids, with a molecular weight of 19 kDa.

UniProt: [P09920](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin, Regulation of Actin Filament Polymerization](#)

Application Details

Application Notes: Other: User Optimized
Application_Note: Granulocyte Colony Stimulating Factor Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Granulocyte Colony Stimulating Factor in immunological assays.

Comment: Suggested_Applications: Cellular Assay
Other_Performance_Data:

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitution_Buffer: Restore with deionized water (or equivalent)
Reconstitution_Volume: 100 µL

Buffer: Buffer: 0.01 M Sodium Citrate, pH 3.0
Stabilizer: None

Preservative: Without preservative

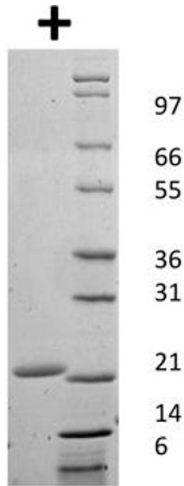
Storage: 4 °C, -20 °C

Storage Comment: Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing

at room temperature.

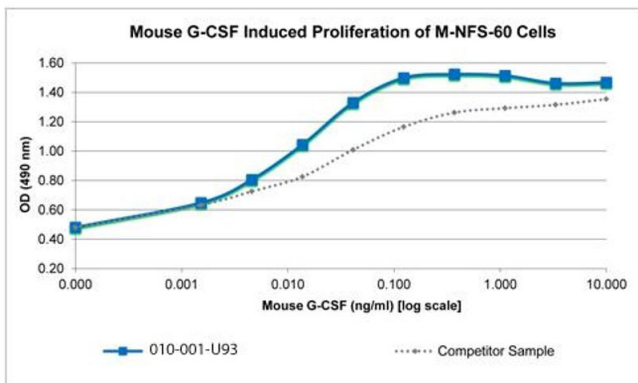
Expiry Date: 6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Mouse Granulocyte Colony Stimulating Factor Recombinant Protein. Lane 1: 1 µg Mouse G-CSF in reducing conditions (+). Lane 2: Molecular weight marker. Mouse G-CSF has a predicted MW of 19 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Mouse Granulocyte Colony Stimulating Factor Recombinant Protein. Serial dilutions of Mouse G-CSF, starting at 10 ng/mL, were added to NFS-60 cells. After 69 hours, cell proliferation was measured and the linear portion of the curve was used to calculate the ED50. The ED50 of Murine G-CSF is 8-12 pg/mL. This value is comparable with the typical expected range of 10-60 pg/mL.