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Datasheet for ABIN6699717 G-CSF Protein

2 Images



Overview

Quantity:	10 µg
Target:	G-CSF (CSF3)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Granulocyte Colony Stimulating Factor Recombinant Protein
Purification:	Granulocyte Colony Stimulating Factor purity was determined to be greater than 95% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically \leq 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the dose-dependent proliferation of mouse NFS-60 and is typically 10-60 pg/mL.

Target Details

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

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	Background: Granulocyte-Colony Stimulating Factor (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 human G-CSF is a non-glycosylated
	protein, containing 175 amino acids, with a molecular weight of 18.8 kDa.
UniProt:	P09919
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: 10 µL (10-100 µL)
Concentration:	0.1 mg/mL
Buffer:	Lyophilized in 20 mM acetic acid, 50 nM sodium chloride.
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

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Expiry Date:

6 months

Images





SDS-PAGE

Image 1. SDS-PAGE of Human Granulocyte Colony Stimulating Factor Recombinant Protein SDS-PAGE of Human Granulocyte Colony Stimulating Factor Recombinant Protein. Lane 1: 1 µg Human G-CSF in nonreducing conditions . Lane 2: Molecular weight marker. Lane 3: 1 µg Human G-CSF in reducing conditions (+). Lane 4: Molecular weight marker. Human G-CSF has a predicted MW of 18.7 kDa.

SDS-PAGE

Image 2. SDS-PAGE of Human Granulocyte Colony Stimulating Factor Recombinant Protein Bioactivity of Human Granulocyte Colony Stimulating Factor Recombinant Protein. Serial dilutions of Human 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 us used to calculate the ED50. The ED50 of Human G-CSF is 15-22 pg/mL. This value is comparable to the typical expected 10-60 pg/mL.

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