Datasheet for ABIN7534508

G-CSF Protein (His tag)

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Overview

Quantity:	100 µg
Target:	G-CSF (CSF3)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This G-CSF protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse G-CSF/CSF3 Protein
Sequence:	VPLVTVSALP PSLPLPRSFL LKSLEQVRKI QASGSVLLEQ LCATYKLCHP EELVLLGHSL GIPKASLSGC SSQALQQTQC LSQLHSGLCL YQGLLQALSG ISPALAPTLD LLQLDVANFA TTIWQQMENL GVAPTVQPTQ SAMPAFTSAF QRRAGGVLAI SYLQGFLETA RLALHHLA
Specificity:	Val31-Ala208
Purity:	> 95 % by SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	< 1 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured in a cell proliferation assay using NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED_{50} for this effect is 38.7-154.8 pg/mL, corresponding to a specific activity of $6.46x10^6$-$2.58x10^7$ units/mg.

Target Details

Target:	G-CSF (CSF3)
Alternative Name:	G-CSF/CSF3 (CSF3 Products)
Background:	Description: Granulocyte colony-stimulating factor (G-CSF) is a growth factor and an essential cytokine which belongs to theIL-6 superfamily. Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesisby controlling the production, differentiation, and function of 2 related white cell populations of the blood, thegranulocytes and the monocytes-macrophages. G-CSF binding to its receptor G-CSF-R which belongs to thecytokine receptor type I family depends on the interaction of alpha-helical motifs of the former and twofibronectin type III as well as an immunoglobulin-like domain of the latter. G-CSF is a cytokine that have beendemonstrated to improve cardiac function and perfusion in myocardial infarction. And it was initially evaluatedas a stem cell mobilizer and erythropoietin as a cytoprotective agent. Name: Granulocyte colony-stimulating factor,Csf3,G-CSF
Gene ID:	12985
UniProt:	P09920
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of Actin Filament Polymerization

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Concentration:	1 mg/mL
Buffer:	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.