Catalog Number: HZ-1207

Data Sheet

HumanKine® G-CSF (Recombinant Human)

Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free

Product Description

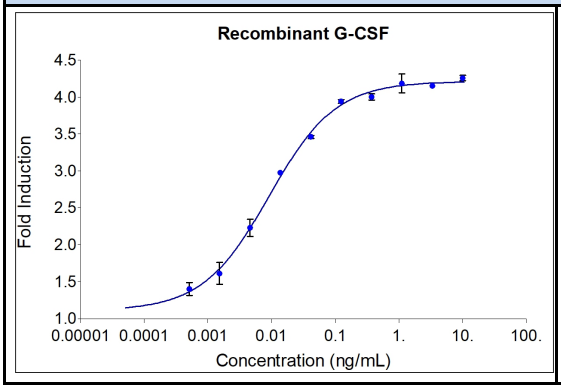
Animal-free Recombinant Human G-CSF is expressed in human 293 cells as a monomeric glycoprotein with an apparent molecular mass of 21 to 25 kDa. This molecular mass is due to glycosylation, which is absent when this cytokine is expressed in E. coli. Glycosylation contributes to stability in cell growth media and other applications. It stimulates the growth of progenitor cells to neutrophils and enhances the functional activities of the mature end-cell. This cytokine is produced in a serum-free, chemically defined media.

Alternative Names	C17orf33, CSF3, Filgrastim, G CSF, GCSF, G-CSF, Lenograstim, Pluripoietin
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived G-CSF protein

Specifications

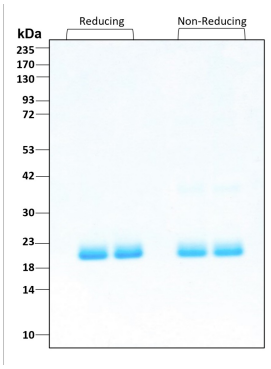
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of murine M-NFS-60 cells (Mouse myeloid leukemia indicator cell line)	0.009-0.05 ng/mL
Molecular Mass	SDS-PAGE	21 to 25 kDa reduced and non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



Recombinant human G-CSF (HZ-1207) stimulates dose-dependent proliferation of the M-NFS-60 Mouse Myeloid Leukemia indicator cells line. Viable cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. M-NFS-60 cells were treated with increasing concentrations of recombinant human G-CSF for 72 hours. The EC50 was determined using a 4-parameter non-linear

SDS-PAGE



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Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
Stability and Storage	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
	Avoid repeated freeze-thaw cycles.		

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