

Catalog Number: HZ-1002

Data Sheet



HumanKine® recombinant human GM-CSF protein

Animal Component-Free

Human cell expressed

Tag-Free

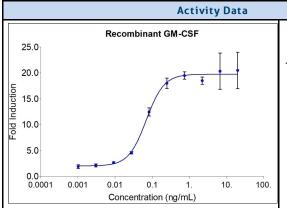
Endotoxin Free

Product Description

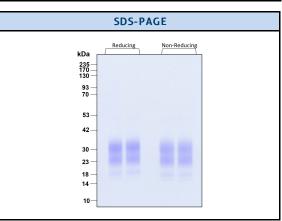
Animal-free Recombinant Human GM-CSF is produced in a human cell expression system in serum-free, chemically defined media. It has a demonstrated greater stability under cell culture conditions making it ideal for efficient generation of Human Dendritic Cells. GM-CSF is a hematopoietic growth factor that stimulates the development of early erythroid megakaryocytic and eosinophilic progenitor cells. It is produced in endothelial cells, monocytes, fibroblasts, and T lymphocytes. Recombinant Human GM-CSF is a 15 to 36 kDa globular protein consisting of 128 amino acids, containing two intramolecular disulfide bonds and two potential N-linked glycosylation sites.

Alternative Names	Colony stimulating factor, CSF, CSF2, GM CSF, GMCSF, GM-CSF, Molgramostin, Sargramostim	
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived GM-CSF protein	
Species Reactivity human,mouse,pig		

Specifications					
Test	Method	Specification			
Activity (EC50)	Dose-dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line)	0.08-0.8 ng/mL			
Molecular Mass	SDS-PAGE	15 to 36 kDa reduced and non-reduced, monomer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<1 EU/µg			



The activity was determined by dose-dependent stimulation of proliferation in human TF-1 cells (human erythroleukemic indicator cell line) measured using Promega CellTiter96® Aqueous Non-Radioactive Cell Proliferation Assay.



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Document #: FR-QA118-101 Rev 0
Data Sheet Version #: 1

Proteintech Group, Inc.

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	Preparation				
Shipping Temperature ambient temperature					
Formulation	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 1xP 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)
	Lyophilized	-20°C to -80°C	Until Expiry Date
Stability and Storage	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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