

Catalog Number: HZ-1002

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

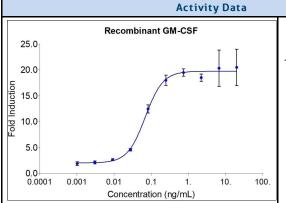
Endotoxin Free

Product Description

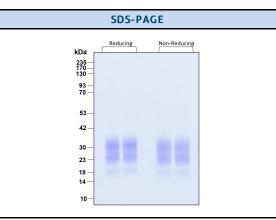
Animal-free Recombinant Human GM-CSF is produced in a human cell expression system in serum-free, chemically defined media. It has a demonstrated greater stability under cell culture conditions making it ideal for efficient generation of Human Dendritic Cells. GM-CSF is a hematopoietic growth factor that stimulates the development of early erythroid megakaryocytic and eosinophilic progenitor cells. It is produced in endothelial cells, monocytes, fibroblasts, and Tlymphocytes. 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 | |

| Specifications | | | | | |
|-------------------|---|--|--|--|--|
| Test | Method | Specification | | | |
| Activity | 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.



www.ptglab.com

Document #: FR-QA118-101 Rev 0 Data Sheet Version #: 1 Proteintech Group, Inc.

5500 Pearl Street, Suite 400 Rosemont, IL 60612 t: 1-888-478-4522; f: 1-312-455-8408 Email: proteintech@ptglab.com

| | 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 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to m | | | | | |

| Stability and Storage | Product Form | Temperature Conditions | Storage Time (From Date of Receipt) |
|-----------------------|---------------------------|------------------------------------|--|
| | 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. | |

www.ptglab.com

Document #: FR-QA118-101 Rev 0 Data Sheet Version #: 1 Proteintech Group, Inc. 5500 Pearl Street, Suite 400 Rosemont, IL 60612

t: 1-888-478-4522; f: 1-312-455-8408 Email: proteintech@ptglab.com