

CSF₂

Recombinant Human GM-CSF/CSF2 (aa 18-144)

Catalog No.CSI15654AQuantity:100 μg

CSI15654B 500 μg

Alternate Names: GMCSF, MGC131935, MGC138897, granulocyte-macrophage colony-stimulating factor,

CSF, molgramostin, sargramostim, colony-stimulating factor, granulocyte-macrophage

colony stimulating factor

Description: Human GM-CSF is a 14.6 kDa globular protein consisting of 128 amino acid containing

two dislufied bonds. GM-CSF is a hematopoietic growth factor that stimulates the development of neutrophils and macrophages and promotes the proliferation and development of early erythroid megakaryocytic and eosinophilic progenitor cells. It is produced in by endothelial cells, monocytes, fibroblasts and T-lymphocytes. GM-CSF inhibits neutrophil migration and enhances the functional activity of the mature end-cells. Recombinant human GM-CSF was expressed in *E.coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Concentration: 1 mg/ml (determined by Bradford assay)

GenelD: 1437

Protein Accession No: NP 000749

Source: E. coli

Molecular Weight: 14.6 kDa (128 aa), confirmed by MALDI-TOF.

Formulation: Liquid. In phosphate-buffered saline (PBS), pH 7.4

Purity: > 95% by SDS - PAGE

Endotoxin Level: < 1.0 EU per 1 microgram of protein (determined by LAL method)

Biological Activity: The ED₅₀ for this effect is < 0.18 ng/ml. Measured in a cell proliferation assay using TF1

Toll Free: 888-769-1246

Phone: 781-828-0610

Fax: 781-828-0542

human erythroleukemic cells.

Amino Acid Sequence: MAPARSPSPS TQPWEHVNAI QEARRLLNLS RDTAAEMNET VEVISEMFDL

QEPTCLQTRL ELYKQGLRGS LTKLKGPLTM MASHYKQHCP PTPETSCATQ

E-mail: info@cellsciences.com

Website: www.cellsciences.com

IITFESFKEN LKDFLLVIPF DCWEPVQE

Application: SDS-PAGE



Storage & Stability: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at

-20°C or -80°C. Avoid repeated freezing and thawing cycles.

Activity Assay: Cell line: TF1 (human erythroleukemic cell)

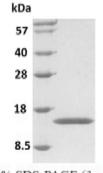
Maintenance Condition: 10% FBS RPMI 1640 with GM-CSF Assay medium: 10% FBS RPMI 1640 without Gm-CSF

Cell density: 2 x 10,000 cells/well (96 well plate, final volume 100 ul)

Starvation: 24hr, Assay medium

Incubation time: 24 hr (after sample treatment) Concentration range: 0.048 ng/ml - 25 ng/ml

Detection method: MTT assay



15% SDS-PAGE (3ug)

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

Fax: 781-828-0542

Toll Free: 888-769-1246 E-mail: info@cellsciences.com
Phone: 781-828-0610 Website: www.cellsciences.com