



Recombinant Protein Technical Manual

Recombinant Mouse GM-CSF/CSF2 Protein (Active)

RPES0902

Product Data:

Product SKU: RPES0902

Size: 10µg

Species: Mouse

Expression host: E. coli

Uniprot: P01587

Protein Information:

Molecular Mass: 14.2 kDa

AP Molecular Mass: 15 kDa

Tag:

Bio-activity: Measured in a cell proliferation assay using PDC-P1 cells The ED50 for this effect is 15-50 pg/ml.

Purity: > 95 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl, pH7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Cell Culture

Synonyms: Granulocyte-macrophage colony-stimulating factor;Csf2;GM-CSF;Colony-stimulating factor;Csfgm

Immunogen Information:

Sequence: Ala18-Lys141

Background:

Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) was initially characterized as a growth factor that can support the in vitro colony formation of granulocyte-macrophage progenitors. It is produced by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokine of immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic, monocytes/ macrophages and eosinophils. GM-CSF has a functional role on nonhematopoietic cells. It can induce human endothelial cells to migrate and proliferate. Additionally, GM-CSF can also stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma and adenocarcinoma cell lines.