

Product datasheet for AR50003PU-S

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GM-CSF Human Protein

Product data:

Product Type: Recombinant Proteins

Description: GM-CSF human recombinant protein, 0.1 mg

Species: Human
Expression Host: E. coli

Expression cDNA Clone MAPARSPSPS TQPWEHVNAI QEARRLLNLS RDTAAEMNET VEVISEMFDL QEPTCLQTRL

or AA Sequence: ELYKQGLRGS LTKLKGPLTM MASHYKQHCP PTPETSCATQ IITFESFKEN LKDFLLVIPF DCWEPVQE

Predicted MW: 14.6 kDa

Concentration: lot specific

Purity: >95% by SDS - PAGE

Buffer: Presentation State: Purified

State: Liquid purified protein

Buffer System: Phosphate -buffered saline (PBS), pH 7.4

Bioactivity: Specific: Measeured in a cell proliferation assay using TF human erythroleukemic cells. The

ED50 for this effect is equal to 50 pg/ml.

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

Preparation: Liquid purified protein

Protein Description: 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.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

RefSeq: NP 000749

 Locus ID:
 1437

 UniProt ID:
 P04141

 Cytogenetics:
 5q31.1

Synonyms: CSF; GMCSF





Summary:

The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13. This gene plays a role in promoting tissue inflammation. Elevated levels of cytokines, including the one produced by this gene, have been detected in SARS-CoV-2 infected patients that develop acute respiratory distress syndrome. Mice deficient in this gene or its receptor develop pulmonary alveolar proteinosis. [provided by RefSeq, Aug 2020]

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein

Protein Pathways:

Cytokine-cytokine receptor interaction, Fc epsilon RI signaling pathway, Hematopoietic cell lineage, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway

Product images:

