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**Product Data Sheet**


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Product Name: GM CSF Human, CHO

Cat. No.: GP20356

Batch No.: 1

**Product Data**

Purity &gt;98% Source Chinese Hamster Ovary cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms CSF-2; MGI-1GM; GM-CSF; Pluripoietin-alpha; Molgramostin; Sargramostim; MGC131935; MGC138897.

Amino Acid Sequence APARSPSPST QPWEHVNAIQ EARRLLNLSR DTAAEMNETV EVISEMFDLQ EPTCLQTRLE LYKQGLRGSL TKLKGPLTMM ASHYKQHCPP TPETSCATQI ITFESFKENL KDFLLVIPFD CWEVPVQE

Formulation The GM CSF Human filtered solution (0.27mg/ml) contains 20mM TRIS HCl buffer pH 7.2.

**Introduction**

Granulocyte Macrophage Colony Stimulating Factor (GM-CSF) was first characterized as a growth factor that supports the in-vitro colony formation of granulocytes-macrophages progenitor cells (1, 2). It is a pleiotropic cytokine and a member of a family of endogenous cytokines of the hematopoietic system. GM-CSF is produced as a response to immune or inflammatory stimuli by activated cells of the hematopoietic system such as T cells, B cells, macrophages, mast cells and also fibroblasts and alveolar epithelial cells. It plays an important role in regulating the proliferation, differentiation, survival and activation of hematopoietic cells such as granulocytes and monocytes, neutrophils, basophils and eosinophils, erythroid cells, megakaryocytes and T cells (3,4).

**Biological Activity**

ED50 < 0.1 ng/ml, determined by the dose dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line).

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

GM-CSF Human Recombinant produced in CHO cells is a 14.6kDa globular protein consisting of 127 amino acids, having two intramolecular disulfide bonds and two N-linked glycosylation sites.

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