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## Recombinant Human GM-CSF

Catalogue Number: PEP-300-03

### Description:

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 endothelial cells, monocytes, fibroblasts and T-lymphocytes. GM-CSF inhibits neutrophil migration and enhances the functional activity of the mature end-cells. The human and murine molecules are species-specific and exhibit no cross-species reactivity. Recombinant Human GM-CSF is a 14.6 kDa globular protein consisting of 128 amino acids, containing two intramolecular disulfide bonds and two potential N-linked glycosylation sites.

**Source:** *E.coli*

**Synonyms:** Granulocyte-Macrophage Colony-Stimulating Factor, CSF-2, MGI-1GM, Pluripoietin- $\alpha$

**AA Sequence:** MAPARSPSPS TQPWEHVNAI QEARLLNLS RDTAAEMNET VEVISEMFDL  
QEPTCLQTRL ELYKQGLRGS LTKLKGPLTM MASHYKQHCP PTPETSCATQ IITFESFKEN LKDFLLVIPF  
DCWEPVQE

**Purity:**  $\geq 98\%$  by SDS-PAGE gel and HPLC analyses.

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is  $\leq 0.1$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^7$  units/mg.

**Cross Reactivity:** Bacteria, Chicken, Human, Human + Mouse, Leech, Mouse, Pig

**Country Of Origin:** USA

Not for human use.

Li StarFish distribuisce:

