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# California Bioscience

## Product Datasheet

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|---|---|
| **Product Name** | Granulocyte Macrophage-Colony Stimulating Factor Porcine |
| **Cata No** | CB500303 |
| **Source** | *Escherichia Coli.* |
| **Synonyms** | CSF-2, MGI-1GM, GM-CSF, Pluripoietin-alpha, Molgramostin, Sargramostim. |

### Description

GMCSF 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.
GM-CSF stimulates the growth and differentiation of hematopoietic precursor cells from various lineages, including granulocytes, macrophages, eosinophils and erythrocytes.
Granulocyte Macrophage Colony Stimulating Factor Porcine Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 127 amino acids and having a molecular mass of 14381 Dalton.
GM-CSF Porcine Recombinant is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

### Biological Activity

The ED50 range= 15-30 ng/ml, determined by the dose dependent proliferation of TF-1 cells.

### Purity

Greater than 95.0% as determined by:
(a)Analysis by RP-HPLC.
(b)Analysis by SDS-PAGE.

### Formulation

GM-CSF Porcine was lyophilized with no additives.

### Stability

Lyophilized Granulocyte Macrophage Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution GMCSF should be stored at 4℃ between 2-7 days and for future use below -18℃. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
**Please prevent freeze-thaw cycles.**

### Sequence

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Pro-Thr-Arg-Pro.