



# **Granulocyte Macrophage Colony Stimulating Factor (GM-CSF, Burst Promoting Activity, CMCSF, Colony Stimulating Factor 2, CSF Alpha, Eosinophil Colony Stimulating Factor, Granulocyte Macrophage Colony Stimulating Factor, Molgramostin, Pluripoietin Alpha, Sargramostim)**

## **Catalog number**

G8951-03D

## **Supplier**

United States Biological

GM-CSF is a hematopoietic growth factor that stimulates the development of neutrophils and macrophages. It promotes the proliferation and development of early erythroid megakaryocytic and eosinophilic progenitor cells. It is produced in by 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.

## **Applications**

Suitable for use in ELISA. Other applications not tested.

Recommended Dilution:

Optimal dilutions to be determined by the researcher.

## **Storage and Stability**

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, add sterile glycerol (40-50%, aliquot and store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

## **Immunogen**

Recombinant protein corresponding to human GM-CSF.

## **Formulation**

Supplied as a lyophilized powder from a solution in 0.01M PBS, pH 7.2. Reconstitution: Double distilled water is recommended and to adjust the final concentration to 1mg/ml.

## **Purity**

Purified by Protein G affinity chromatography.

## **Specificity**

Reacts with natural and recombinant human GM-CSF. Does not show any cross reaction with other human cytokines or growth factors tested such as M-CSF, G-CSFR, IL-8, IL-16, IL-1 $\beta$ , TGF- $\beta$ 1 and TNF- $\alpha$ .

**Product Type**

Mab

**Source**

Human

**Isotype**

IgG1,k

**Grade**

Affinity Purified

**Applications**

E

**Crossreactivity**

Hu

**Storage**

-20°C