



Recombinant Mouse GM-CSF
(Granulocyte Macrophage-Colony Stimulating Factor)

Catalog Number: 200-15

Accession Number: P01587

Specifications and Uses:

Alternate Names: CSF-2, Pluripoietin- α , MGI1GM

Description:

Granulocyte Macrophage Colony Stimulating Factor, GM-CSF, is hematopoietic factor produced by endothelial cells, monocytes, fibroblasts and T cells in response to a number of inflammatory mediators. GM-CSF is able to stimulate the production of neutrophilic granulocytes, macrophages, and mixed granulocyte-macrophage colonies from bone marrow cells. GM-CSF can also stimulate some functional activities in mature granulocytes and macrophages. Human and mouse GM-CSF show no cross-reactivity. Recombinant mouse GM-CSF is a non-glycosylated protein, containing 125 amino acids, with a molecular weight of 14.3 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant mouse GM-CSF is lyophilized from 10 mM acetic acid (AcOH). Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically $\geq 95\%$) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein.

Biological Activity:

The activity is determined by the dose-dependent proliferation of mouse FDCP-1 cell line and is typically less than 10 pg/mL.

AA Sequence:

MAPTRSPITV TRPWKHVEAI KEALNLLDDM PVTLNNEEVV VSNEFSFKKL TCVQTRLKIF EQGLRGNFTK
LKGALNMTAS YYQTYCPPTP ETDCETQVTT YADFIDSLKT FLTDIPFECK KPVQK

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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