Mouse Granulocyte Macrophage-Colony Stimulating Factor

20 ug 100 ug 1000 ug

CAT. NO. RP2015-20 RP2015-100 RP2015-1000

BACKGROUND

Granulocyte Macrophage Colony Stimulating Factor, GM-CSF, is hematopoietic factor produced by entothelial 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 granulocytemacrophage 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 and having a molecular mass of 14.3 kDa.

Alternative Names:

CSF-2. Pluripoietin-a, MGI1GM

Amino Acid Sequence:

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

TECHNICAL INFORMATION

Source: E.coli

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant mouse GM-CSF was lyophilized from 10 mM Acetic Acid.

Stability:

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 determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

The activity is determined by the dose-dependent proliferation of mouse DA3 cell line and is typically 10-60 pg/ml.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

