

Recombinant mouse GM-CSF protein

Catalog Number: MSF0801

PRODUCT INFORMATION

Expression system

E.coli

Domain

18-141aa

UniProt No.

P01587

NCBI Accession No.

NP_034099

Alternative Names

Granulocyte-macrophage colony stimulating factor 2, Csf2, Csfgm, MGI-IGM, mGM-CSF, Granulocyte-macrophage colony stimulating factor 2, Granulocyte-macrophage colony stimulating factor 2

PRODUCT SPECIFICATION

Molecular Weight

14 kDa (125aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured in a cell proliferation assay using MC/9 mouse mast cells. The ED50 for this effect is less or equal to 0.06ng/ml.

Tag

Non-Tagged

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

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 by endothelial cells, monocytes, fibroblasts and T-lymphocytes. GM-CSF inhibits neutrophil migration and enhances the functional activity of the mature end-cells. Mouse GM-CSF protein is 125 amino acids and shares approximately 60% homology with the human GM-CSF protein. Recombinant mouse GM-CSF was expressed in *E. coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer

Amino acid Sequence

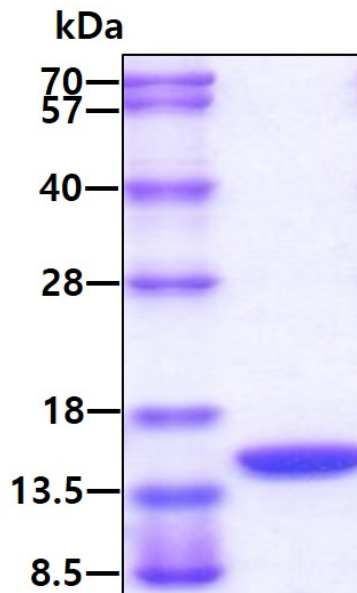
MAPTRSPITV TRPWKHVEAI KEALNLLDDM PVTLNEEVEV VSNEFSFKKL TCVQTRLKIF EQGLRGNFTK LKGALNMTAS
YYQTYCPPTP ETD CETQVTT YADFIDSLKT FLTDIPFECK KPVQK

General References

Fleetwood AJ., et al , (2005). Crit Rev Immunol. 25(5):405-28.
Hamilton JA., et al. (2004). Growth Factors. 22(4):225-31.

DATA

SDS-PAGE

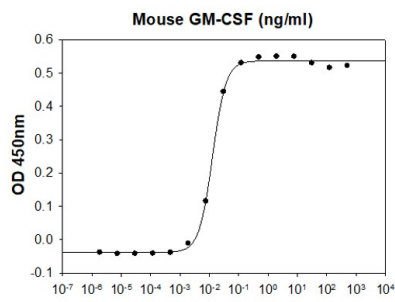


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

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Mouse GM-CSF stimulates cell proliferation of the MC/9 mouse mast cells. The ED50 range is less or equal 0.06 ng/ml.