PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant GM-CSF, Mouse

Catalog Number: BK0067-50μg Source: Escherichia coli. Quantity: 50μg

Description:

Granulocyte Macrophage Colony Stimulating Factor (GM-CSF) was initially characterized as a growth factor that can support the in vitro colony formation of granulocyte-macrophage progenitors. It is produced by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokine and other immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic cells, GM-CSF is a survival factor that activates effector functions of granulocytes, monocytes/macrophages and eosinophils.Recombinant Mouse GM-CSF produced in E.coli is a single non-glycosylated polypeptide chain containing 125 amino acids. A fully biologically active molecule, rmGM-CSF has a molecular mass of 14.3 kD analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

14.3 kDa, observed by reducing SDS-PAGE.

Purity:

> 98% as analyzed by SDS-PAGE&HPLC.

Biological Activity:

ED50 < 5 pg/ml, measured in a cell proliferation assay using mouse FDC-P1 cells, corresponding to a specific activity of >2 x 10ˆ8 units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MAPTRSPITVTRPWKHVEAIKEAL-
NLLDDMPVTLNEEVEVVSNEFSFKKL
TCVQTRLKIFEQGLRGNFTKLKGALNMTA-
SYYQTYCPPTPETDCETQVTT
YADFIDSLKTFLTDIPFECKKPVQK

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 μg/ml.

Storage:

Lyophilized recombinant Mouse GM-CSF remains stable up to 6 months at -80℃ from date of receipt. Upon reconstitution, Mouse GM-CSF should be stable up to 1 week at 4℃ or up to 3 months at -20℃.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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