

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant GM-CSF, Mouse

Catalog Number: BK0212-50µg

Source: CHO

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 or 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 for and activates the effector functions of granulocytes, monocytes/macrophages and eosinophils.

Molecular Weight:

15~19 kDa, observed by non-reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 < 0.05 ng/ml, measured in a cell proliferation assay using mouse FDC-P1 cells, corresponding to a specific activity of >2 x 10⁷ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

APTRSPITVTRPWKHVEAIKEAL-
NLLDDMPVTLNEEVEVVSNEFSFKKLTCVQTRL
KIFEQGLRGNFTKLKGALNMTA-
SYYQTYCPPTPETDCETQVTTYADFDLSLKTFLT-
DIPFECKKPVQK

Endotoxin:

<0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant murine Granulocyte Macrophage Colony Stimulating Factor (GM-CSF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmGM-CSF should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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