

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Rat Granulocyte- Macrophage Colony Stimulating Factor (rrGM-CSF)

Catalog Number: PR3003

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

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. The human and murine molecules are species-specific and exhibit no cross-species reactivity.

Molecular Weight:

Recombinant rat GM-CSF is a 14.5 kDa globular protein consisting of 128 amino acids residues.

Purity:

>98% by SDS-PAGE and HPLC analyses.

Biological Activity:

The ED50 was determined by the dose-dependent stimulation of the proliferation of Murine FDC-P1 cells is < 0.01 ng/ml, corresponding to a specific activity of > 1.0 x 10⁸ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered solution in PBS, pH 7.4.

AA Sequence:

M A P T R S P N P V T R P W K H V D A I K E A L S L L
N D M R A L E N E K N E D V D I I S N E F S I Q R P T C

V Q T R L K L Y K Q G L R G N L T K L N G A L T M I A
S H Y Q T N C P P T P E T D C E I E V T T F E D F I K N
L K G F L F D I P F D C W K P V Q K

Endotoxin:

Less than 1EU/mg of rr GM-CSF as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

Bioworld Technology, Inc.

1660 South Highway 100, Suite 500 St. Louis Park, MN

55416, USA.

Tel: 6123263284

Email: info@bioworld.com

Fax: 6122933841

Bioworld technology, co, Ltd.

No 9, weidi road Qixia District Nanjing, 210046, P, R.China.

Tel: 0086-025-86371664

Email: info@biogot.com

Fax: 0086-025-86213570