

RECOMBINANT MOUSE G-CSF

Catalog # 02715

5 mg per vial

Catalog # 02915

25 mg per vial

PRODUCT DESCRIPTION:

Mouse granulocyte colony stimulating factor (G-CSF) is a 19 kDa protein with 179 amino acid residues. G-CSF is a pleiotropic cytokine best known for its specific effects on the proliferation, differentiation and activation of hematopoietic cells of the granulocyte lineage.

SOURCE:

A DNA sequence encoding the mature mouse G-CSF protein sequence was expressed in *E. coli*.

PURITY:

Greater than 97% by SDS-PAGE and visualized by silver stain. Endotoxin level is less than 0.1 ng per μg of mouse G-CSF as determined by the LAL method.

FORMULATION:

Lyophilized from a sterile-filtered solution in 20mM acetic acid containing 50 μg of bovine serum albumin per 1 μg of cytokine.

RECONSTITUTION:

It is recommended that sterile phosphate-buffered saline containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution of no less than 5 $\mu\text{g}/\text{ml}$ of the cytokine.

STABILITY/STORAGE:

The lyophilized powder is stable for greater than six months at -20°C to -70°C .

Reconstituted mouse G-CSF can be stored under sterile conditions at 2°C to 4°C for one month or at -20°C to -70°C for three months without detectable loss of activity.

Avoid repeated freezing and thawing.

ACTIVITY:

The biological activity of recombinant mouse G-CSF was measured in a cell proliferation assay using a mouse myeloblastic cell line, NSF-60. The ED_{50} for this effect is typically 0.01 - 0.03 ng/ml, corresponding to a specific activity of approximately 5×10^7 units/mg.

**THIS REAGENT IS FOR RESEARCH USE ONLY.
IT IS NOT TO BE ADMINISTERED TO HUMANS.**