

Optimize Your Research

Recombinant Mouse Granulocyte Colony Stimulating Factor protein

Code CD00437

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.

Intended Use

This product is for research use only, not for use in diagnosis procedures. It is highly recommended to read this instruction entirely before the use.

Source

Escherichia coli.

Molecular Weight

Approximately 18.9 kDa, a single non-glycosylated polypeptide chain containing 178 amino acids.

Purity

> 98 % by SDS-PAGE and HPLC analyses.

Biological Activity

Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using Mouse NFS-60 cells is less than 0.05 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^7$ IU/mg.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in 10 mM Sodium Citrate, pH 4.0, 150 mM NaCl, 0.01 % Tween-20.

Sequence

VPLVTVSALP PSLPLPRSFL LKSLEQVRKI QASGSVLEEQ LCATYKLCHP EELVLLGHSL GIPKASLSGC SSQALQQTQC LSQLHSGLCCL YQGLLQALSG ISPALAPTL D LLQLDVANFA TTIWQQMENL GVAPT VQPTQ SAMP AFTSAF QRRAGGV LAI SYLQGFLETA RLALHHLA

Endotoxin

Less than 0.1 EU/µg of rMuG-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.

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