Csf3
Recombinant Mouse Granulocyte-Colony Stimulating Factor

Catalog No.	CRG301A	**Quantity:**	2 µg
	CRG301B		10 µg
	CRG301C		1.0 mg
	CRG301D		100 µg

Alternate Names: Colony Stimulating Factor 3, CSF3, CSF-beta, DF, G-CSF

Description: Granulocyte Colony-Stimulating Factor, or G-CSF, is a growth factor that is considered the most potent inducer of terminal differentiation to granulocytes and macrophages of leukemic myeloid cell lines. The synthesis of G-CSF can be induced by bacterial endotoxins, TNF, IL-1 and GM-CSF. Prostaglandin E2 inhibits the synthesis of G-CSF, while in epithelial, endothelial, and fibroblastic cells secretion of G-CSF is induced by IL -17. Human and mouse G-CSF are cross-reactive.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

GeneID: 12985

UniProt ID: P09920

Source: *E. coli*

Molecular Weight: Monomer, 19.1 kDa (179 aa)

Formulation: Lyophilized from a sterile filtered aqueous solution containing 10 mM sodium citrate, pH 3.0

Purity: ≥ 95%, by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤ 1 EU/µg, by kinetic LAL analysis

Biological Activity: ED_{50} ≤50 pg/ml, determined by the dose-dependent proliferation of mouse NFS-60 cells.

Specific Activity: ≥ 2.0×10^7 units/mg

Amino Acid Sequence: MVPLVTVSAL PPSLPLPRSF LLKSLEQVRK IQASGSVLLE QLCATYKLCH PEELVLLGHS LGIPKASLSG CSSQALQQTQ CLSQLHSGLC LYQGLLQALS GISPALAPTL DLLQLDVANF ATTIWQQMEN LGVAPTVQPT QSAMPAFTSA FQRRAGGVLA ISYLQGFLET ARLALHHLA

Reconstitution: **Centrifuge vial before opening.** Reconstitute with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions. Gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.

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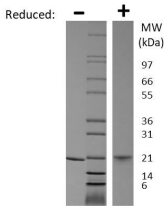
Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.



Mouse G-CSF Gel
Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse G-CSF is predicted to have a MW of 19.1 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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