

Animal, Bacterial & Viral Free - Low Endotoxin - Ultra Pure - High BioActivity

GCSF

Recombinant Human Granulocyte Colony Stimulating Factor

HQ Tagged

Catalog No.	CRG127A CRG127B CRG127C CRG127D	Quantity:	10 µg 50 µg 1 mg 100 µg
Alternate Names:	Colony Stimulating Factor 3, CSF3, DF, G-CSA, GM-DF, LBGF, MGI-1G, MGI-2, NAP-IF, SCIF		
Gene ID:	1440		
Description:	Recombinant human G-CSF is a glycoprotein containing 174 amino acid residues and a 15 amino acid HQ Tag for a total length of 189 amino acids. It has a predicted molecular mass of 20.6 kDa, but as a result of glycosylation, migrates with an apparent molecular mass of 23 kDa in SDS-PAGE.		
Source:	<i>Hordeum vulgare</i> (barley grain). Barley grain exhibits up to 50 times less protease activity than <i>E.coli</i> or mammalian cells. Barley seed is void of any human or animal viral contaminants that could jeopardize cell culture.		
Molecular Weight:	23 kDa		
Formulation:	Lyophilized from a 0.2 µm sterile filtered solution in PBS, pH 7.2		
Purity:	> 95% as determined by SDS-PAGE analysis. Purified product carries no pyrogenic or pro-inflammatory contaminants, as assayed with monocyte activation test using Human 10-plex Cytokine Assay measuring IL-6, TNF-alpha and IL-1beta induction.		
Endotoxin Level:	< 0.005 ng/µg of G-CSF		
Biological Activity:	Bioactivity is assayed by measuring the dose dependent effect of human G-CSF on proliferation of mouse NFS-60 cells. The ED ₅₀ is 1.06 ng/ml according to this assay.		
Specific Activity:	1.00 x 10 ⁶ U/mg		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml.		
Storage & Stability:	Store lyophilized protein at -20°C and reconstituted protein in working aliquots at -20°C with a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

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