

APEN

APERBIC BIO G-CSF, murine recombinant

Information

Gene ID	12985		
Accession #	P09920		
Alternate Names			
Source	Escherichia coli.		
M.Wt	Approximately 18.9 kDa, a single non-glycosylated polypeptide chain containing 178 amino acids.		
AA Sequence	VPLVTVSALP PSLPLPRSFL LKSLEQVRKI QASGSVLLEQ LCATYKLCHP EELVLLGHSL GIPKASLSGC SSQALQQTQC LSQLHSGLCL YQGLLQALSG ISPALAPTLD LLQLDVANFA TTIWQQMENL GVAPTVQPTQ SAMPAFTSAF QRRAGGVLAI SYLQGFLETA RLALHHLA		
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.		
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.		
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.		
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using murine NFS-60 cells is less than 0.05 ng/ml, corresponding to a specific activity of > 2.0×10^7 IU/mg.		
Shipping Condition	Gel pack.		
Handling	Centrifuge the vial prior to opening.		
Usage	For Research Use Only! Not to be used in humans.		
Components and Storage			

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Components	10 µg	100 µg	500 µg
G-CSF, murine recombinant	10 µg	100 µg	500 µg

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Quality Control	Leven and the second se	al Queen	
Purity	> 98 % by SDS-PAGE and HPLC analyses.	Proto and the b	
Endotoxin	Less than 0.1 EU/ μ g of rMuG-CSF as determ	1 EU/µg of rMuG-CSF as determined by LAL method.	

Description

Granulocyte colony stimulating factor (G-CSF) is a pleiotropic cytokine. It is mainly produced by monocytes and macrophages upon activation by endotoxin, TNF- α and IFN- γ . Besides, many other cell types can secreted this protein after LPS, IL-1 or TNF α activation, which are fibroblasts, endothelial cells, astrocytes and bone marrow stromal cells. Various carcinoma cell lines and myeloblastic leukemia cells can express G-CSF constitutively. G-CSF is cytokine that acts in hematopoiesis by controlling the production, differentiation and function of 2 related white cell populations of the blood, the granulocytes and the monocytesmacrophages. In addition, it may function in some adhesion or recognition events at the cell surface. The murine G-CSF cDNA encodes a 208 amino acid (a.a.) residue precursor protein containing a 30 a.a. residue signal peptide that is proteolytically cleaved to generate the 178 a.a. residue mature protein. Murine G-CSF is 73 % identical at the amino acid level to human G-CSF and the two proteins show species cross-reactivity

