

CSF3

Recombinant Human Granulocyte-Colony Stimulating Factor

Catalog No.	CRG006A CRG006B CRG006C	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	Colony Stimulating Factor 3, CSF-3, MGI-1G, GM-CSF beta, GCSF		
Description:	Granulocyte Colony Stimulating Factor is a growth factor and/or cytokine produced by the endothelium, macrophages and a number of other immune cells. It stimulates the bone marrow to produce granulocytes and also to stimulate the survival, proliferation, differentiation and function of neutrophil granulocyte progenitor cells and mature neutrophils. Recombinant Human Granulocyte-Colony Stimulating Factor is a single, glycosylated polypeptide chain containing 174 amino acids. The protein was purified by proprietary chromatographic techniques.		
GeneID:	1440		
UniProtKB:	P09919		
Source:	CHO cells		
Molecular Weight:	18.0 kDa		
Formulation:	Lyophilized from a sterile-filtered 1 mg/mL solution in PBS, pH 7.4		
Purity:	>97% by RP-HPLC and SDS-PAGE		
Biological Activity:	The ED ₅₀ calculated by the dose-dependant proliferation of murine NFS-60 cells (measured by ³ H-thymidine uptake) is < 0.07 ng/mL.		
Specific Activity:	1.27 x 10 ⁸ IU/mg		
Amino Acid Sequence:	TPLGPASSLP QSFLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL GHSLGIPWAP LSSCPSQALQ LAGCLSQLHS GLFLYQGLLQ ALEGISPELG PTLDTLQLDV ADFATTIWQQ MEELGMAPAL QPTQGAMPAF ASAFQRRAGG VLVASHLQSF LEVSYRVLRLH LAQP		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration not less than 100 µg/mL. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
Storage & Stability:	Store at -20 °C. After reconstitution, store at 2-4 °C for one week. For long term storage, reconstitute in working aliquots containing 0.1% HSA or BSA and store at -20 °C to -80 °C. Avoid repeated freeze-thaw cycles.		

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