

## CSF3

### Recombinant Human Granulocyte-Colony Stimulating Factor

<b>Catalog No.</b>	CRG006A CRG006B CRG006C	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Alternate Names:</b>	Granulocyte colony-stimulating factor, G-CSF, Pluriprotein, Filgrastim, Lenograstim, CSF3		
<b>Description:</b>	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.		
<b>UniProt ID:</b>	P09919		
<b>Gene ID:</b>	1440		
<b>Source:</b>	CHO cells		
<b>Molecular Weight:</b>	18.0 kDa (174 aa)		
<b>Formulation:</b>	Lyophilized from 1 mg/ml sterile-filtered 10 mM HCl, pH 6.5 containing 0.4mg Tween-20, 100mg mannitol, 160mg L-arginine, 40mg phenylalanine and 4mg methionine.		
<b>Purity:</b>	>97% by RP-HPLC and SDS-PAGE		
<b>Biological Activity:</b>	ED <sub>50</sub> < 0.1 ng/ml, by the dose-dependant proliferation of murine NFS-60 cells (measured by <sup>3</sup> H-thymidine uptake)		
<b>Specific Activity:</b>	≥ 1.27 x 10 <sup>8</sup> IU/mg		
<b>Amino Acid Sequence:</b>	TPLGPASSLP QSFLLKCLEQ VRKIQGDGAA LQEKLCATYK LCHPEELVLL GHSLGIPWAP LSSCPSQALQ LAGCLSQLHS GLFLYQGLLQ ALEGISPELG PTLDTLQLDV ADFATTIWQQ MEELGMAPAL QPTQGAMPAF ASAFQRRAGG VLVASHLQSF LEVSYRVLRLH LAQP		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration not less than 100 µg/mL. After complete solubilization of the protein, it may be further diluted to other aqueous solutions.		
<b>Storage &amp; Stability:</b>	Upon receipt, store lyophilized product at -20°C to -80°C. Upon reconstitution, solution may be stored at 2-8°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. <b>Avoid repeated freeze-thaw cycles.</b>		

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