

## CSF2

### Recombinant Rhesus Macaque GM-CSF

<b>Catalog No.</b>	CRG134A CRG134B CRG134C	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Alternate Names:</b>	Granulocyte-Macrophage colony stimulating factor, colony stimulating factor 2, GM-CSF		
<b>Description:</b>	GM-CSF was initially characterized as a growth factor that can support the <i>in vitro</i> colony formation of granulocyte-macrophage progenitors. It is produced by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokine or immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic cells, GM-CSF is a survival factor for and activates the effector functions of granulocytes, monocytes, macrophages, and eosinophils.		
<b>Gene ID:</b>	574371		
<b>UniProt ID:</b>	Q9GL44		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	14.4 kDa (127 aa)		
<b>Formulation:</b>	Lyophilized from a sterile filtered PBS, pH 7.4.		
<b>Purity:</b>	>98% by SDS-PAGE and HPLC analyses		
<b>Endotoxin Level:</b>	<1 EU/µg		
<b>Biological Activity:</b>	ED <sub>50</sub> < 0.1 ng/ml, as calculated by the dose-dependant stimulation of the proliferation of human TF-1 cells.		
<b>Specific Activity:</b>	> 1.0 ×10 <sup>7</sup> IU/mg.		
<b>Amino Acid Sequence:</b>	APARSPSPGT QPWEHVNAIQ EARRLLNLSR DTAAEMNKTV EVVSEMFDLQ EPSCQLQTRLE LYKQGLQGSL TKLKGPLTMM ASHYKQHCPP TPETSCATQI ITFQSFKENL KDFLLVIPFD CWEPVQE		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.. Further dilutions should be made in appropriate buffered solution.		
<b>Storage &amp; Stability:</b>	Upon receipt, store at -20 °C to -80 °C for up to 1 year. Upon reconstitution, store at 2 -8 °C for up to one month. For long term storage reconstitute in working aliquots containing 0.1% BSA and store at -20 °C to -80 °C. <b>Avoid repeated freeze-thaw cycles.</b> □		

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



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