

## Recombinant Human CSF2 Protein

**Cat. No.** CSF2-493H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CSF2 protein
<b>Species</b>	Human
<b>ProteinLength</b>	144
<b>Description</b>	<p>The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of granulocytes and macrophages. The active form of the protein is found extracellularly as a homodimer. This gene has been localized to a cluster of related genes at chromosome region 5q31, which is known to be associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include those encoding interleukins 4, 5, and 13. This gene plays a role in promoting tissue inflammation. Elevated levels of cytokines, including the one produced by this gene, have been detected in SARS-CoV-2 infected patients that develop acute respiratory distress syndrome. Mice deficient in this gene or its receptor develop pulmonary alveolar proteinosis.</p>
<b>Form</b>	Lyophilized
<b>AA Sequence</b>	<p>MWLQSLLLLGTVACISAPARSPSPSTQPWEHVNAIQEARRLLNLSRDTAEMNETV            EVISEMFDLQEPTCLQTRLELYKQGLRGLSLTKLKGPLTMMASHYKQHCPPTPETSC            ATQIITFESFKENLKDFLLVIPFDCWEPVQE</p>
<b>Purity</b>	> 98%

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<b>Applications</b>	WB; ELISA; FACS; FC
<b>Stability</b>	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
<b>Storage</b>	At -20 centigrade.
<b>Storage Buffer</b>	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
<b>Reconstitution</b>	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

<b>Gene Name</b>	CSF2 colony stimulating factor 2 (granulocyte-macrophage) [ Homo sapiens (human) ]
<b>Official Symbol</b>	CSF2
<b>Synonyms</b>	CSF2; colony stimulating factor 2 (granulocyte-macrophage); granulocyte-macrophage colony-stimulating factor; GM CSF; GMCSF; granulocyte macrophage colony stimulating factor; molgramostin; sargramostim; CSF; colony-stimulating factor; granulocyte-macrophage colony stimulating factor; MGC131935; MGC138897;
<b>Gene ID</b>	1437
<b>mRNA Refseq</b>	NM_000758

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<b>Protein Refseq</b>	NP_000749
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<b>MIM</b>	138960
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<b>UniProt ID</b>	P04141
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