



## Human CSF1 peptide (DAG292)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Product Overview</b>	Recombinant Human CSF1 is a disulfide linked homodimer, non-glycosylated, polypeptide chain containing 2 x 159 amino acids and having a total molecular weight of 36.8kDa, the sequence of the first five N-terminal amino acids was determined to be Met-Glu-Glu-V
<b>Antigen Description</b>	Macrophage colony-stimulating factor, or M-CSF, is a secreted cytokine which influences hemopoietic stem cells to differentiate into macrophages or other related cell types. Eukaryotic cells also produce M-CSF in order to combat intercellular viral infection. (See colony-stimulating factor.) M-CSF binds to the Colony stimulating factor 1 receptor. It may also be involved in development of the placenta.
<b>Species</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	The ED <sub>50</sub> calculated by the dose-dependent stimulation of proliferation of murine M-NFS-60 indicator cells is about 5ng/ml, corresponding to a specific activity of 2 x 10 <sup>5</sup> IU/mg. Each laboratory should determine an optimum working titer for use in its particu
<b>Format</b>	Purified, Lyophilized. Reconstitute using sterile deionized water to a concentration of 100μg/ml. Further dilutions can be made in other aqueous buffers.
<b>Concentration</b>	2 mg/ml (OD <sub>280nm</sub> , E <sub>0.1%</sub> = 0.815) (prior to lyophilization).
<b>Buffer</b>	Lyophilized from 5mM Sodium phosphate, pH 8.0 containing 100mM Sodium chloride.
<b>Preservative</b>	None
<b>Storage</b>	2-8°C short term, -20°C long term

### BACKGROUND

**Introduction** Granulocyte/macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.

**Keywords** CSF1; colony stimulating factor 1 (macrophage); MCSF; CSF-1; macrophage colony-stimulating factor 1; Ianimostim;

## GENE INFORMATION

Entrez Gene ID [1435](#)

UniProt ID [P09603](#)