



Human CSF1 peptide (DAG292)

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

PRODUCT INFORMATION

Product Overview	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
Antigen Description	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.
Species	Human
Conjugate	Unconjugated
Applications	The ED ₅₀ calculated by the dose-dependent stimulation of proliferation of murine M-NFS-60 indicator cells is and 5ng/ml, corresponding to a specific activity of 2 x 10 ⁵ IU/mg. Each laboratory should determine an optimum working titer for use in its particular
Format	Purified, Lyophilized. Reconstitute using sterile deionized water to a concentration of 100µg/ml. Further dilutions can be made in other aqueous buffers.
Concentration	2 mg/ml (OD _{280nm} , E _{0.1%} = 0.815) (prior to lyophilization).
Buffer	Lyophilized from 5mM Sodium phosphate, pH 8.0 containing 100mM Sodium chloride.
Preservative	None
Storage	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; lanimostim;

GENE INFORMATION

Entrez Gene ID

[1435](#)

UniProt ID

[P09603](#)