

Recombinant Human CSF2 protein(Ala18-Glu144), hFc-tagged

Cat. No. CSF2-486H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CSF2 (NP_000749.2) (Ala 18-Glu 144) was expressed in HEK293, fused with the Fc region of Human IgG1 at the N-terminus.
Species	Human
Source	HEK293
ProteinLength	18-144 a.a.
Form	Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5. Normally 5% - 8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Measured by its binding ability in a functional ELISA. Immobilized CD131 at 10 µg/ml (100 µl/well) can bind recombinant human GM-CSF / Fc with a linear range of 0.032-4 µg/ml. 2. Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is typically 1-5 ng/mL.
Molecular Mass	The recombinant human GM-CSF/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 364 amino acids and has a predicted molecular mass of 41 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh GM-CSF/Fc monomer is approximately 48-55 kDa due to glycosylation.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method

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Purity	> 97 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CSF2 colony stimulating factor 2 (granulocyte-macrophage) [Homo sapiens]
Official Symbol	CSF2
Synonyms	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;
Gene ID	1437
mRNA Refseq	NM_000758
Protein Refseq	NP_000749
MIM	138960
UniProt ID	P04141

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