## **Human GM-CSF / CSF2 (Fc Tag) recombinant protein**

Catalog Number: 504038



#### **General Information**

#### Gene Name Synonym

Colony-stimulating factor; Molgramostin; Sargramostim

#### **Protein Construction**

A DNA sequence encoding the mature form of human GM-CSF (NP\_000749.2) (Ala 18-Glu 144) was fused with the Fc region of human IgG1 at the N-terminus.

#### **Organism**

Human

## **Expression Host**

**Human Cells** 

## **QC Testing**

#### **Activity**

1. Measured by its binding ability in a functional ELISA.

Immobilized CD131 at 10  $\mu$ g/ml (100  $\mu$ l/well) can bind recombinant human GM-CSF / Fc with a linear range of 0.032-4  $\mu$ g/ml.

2. Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The  $ED_{50}$  for this effect is typically 1-5 ng/mL.

## **Purity**

> 97 % as determined by SDS-PAGE

#### **Endotoxin**

< 1.0 EU per  $\mu g$  of the protein as determined by the LAL method

#### **Stability**

Samples are stable for up to twelve months from date of receipt at -70°C

#### **Predicted N terminal**

Glu 20

#### **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.

#### **Formulation**

Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5

- 1. 5 % trehalose and mannitol are added as protectants before lyophilization.
- 2. Please contact us for any concerns or special requirements.

## **Usage Guide**

#### Storage

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

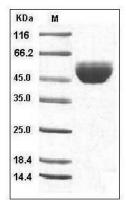
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

#### **SDS-PAGE**

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