

HUMAN GM-CSF PROTEIN, HFC TAG

目录: 11365

产品名称: Human GM-CSF Protein

规格: 10 µg, 50 µg and 100 µg

基因符号: CSF;GMCSF

Target: GM-CSF

UNIPROT ID: P04141

描述: Recombinant Human GM-CSF Protein with C-terminal human Fc tag

背景: 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. [provided by RefSeq, Aug 2020]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 40.6 kDa after removal of the signal peptide. The apparent molecular mass of GM-CSF-hFc is approximately 35-70 kDa due to glycosylation.

Molecular Characterization: GM-CSF(Ala18-Glu144) hFc(Glu99-Ala330)

纯化: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

储存和运输: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

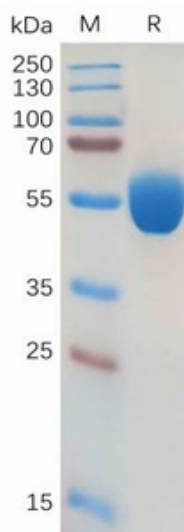


Figure 1. Human GM-CSF Protein, hFc Tag on SDS-PAGE under reducing condition.

Human GM-CSF, hFc Tagged protein ELISA
0.2 µg of Human GM-CSF, hFc tagged protein per well

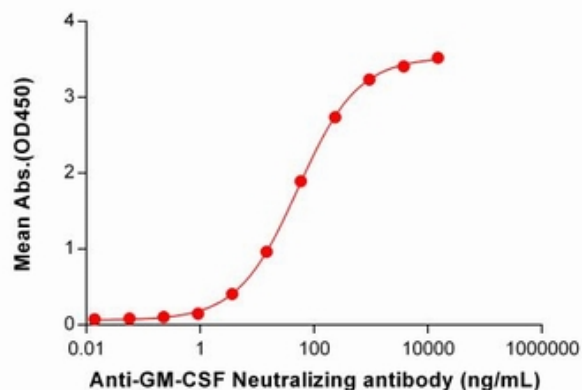


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human GM-CSF Protein, hFc Tag (11365) can bind GM-CSF Neutralizing antibody 28125 in a linear range of 0.92-937.50 ng/mL.