Recombinant Human GM-CSF Protein(His Tag)

Catalog Number: PDMH100207

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

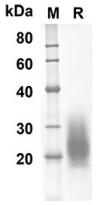
Description

Species	Human
Source	Mammalian-derived Human GM-CSF proteins Ala18-Glu144, with an C-terminal His
Calculated MW	13.9 kDa
Observed MW	20-30 kDa
Accession	P04141
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human GM-CSF proteins, 2 μg/lane of Recombinant Human GM-CSF proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 13.9 kDa.

Background

CSF2 (Colony Stimulating Factor 2) is a Protein Coding gene. Diseases associated with CSF2 include Mucositis and Candida Glabrata. Among its related pathways are RET signaling and IL-15 Signaling Pathways and their Primary Biological Effects in Different Immune Cell Types. GO annotations related to this gene include cytokine activity and granulocyte macrophage colony-stimulating factor receptor binding. 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.

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