Recombinant Human CSF-2/GM-CSF Protein

Catalog No.: RP00094

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Sequence Information

Species
Human

Gene ID
1437

Swiss Prot
P04141

Tags
C-His

Synonyms
CSF2,GMCSF

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
15.02 kDa

Observed MW
20-32 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

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.

Basic Information

Description
Recombinant Human CSF-2/GM-CSF Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ala18-Glu144) of human GM-CSF/CSF2 (Accession #NP_000749.2) fused with a 6×His tag at the C-terminus.

Activity
Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED_{50} for this effect is 30-140 pg/mL, corresponding to a specific activity of 7.14×10^{6}-3.33×10^{7}units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

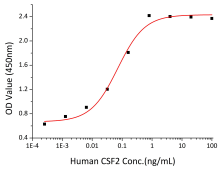
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

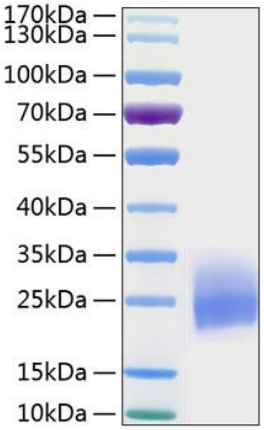
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Validation Data



Recombinant Human CSF-2 stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED_{50} for this effect is 30-140 pg/mL, corresponding to a specific activity of 7.14×10^{6}-3.33×10^{7}units/mg.



Recombinant Human CSF-2/GM-CSF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.