

## Recombinant Human CSF2 protein

**Cat. No.** CSF2-3533H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CSF2 protein(P04141)(Ala18-Glu144) was expressed in E.coli.                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                              |
| <b>ProteinLength</b>    | Ala18-Glu144                                                                                                                                                        |
| <b>Tag</b>              | Non                                                                                                                                                                 |
| <b>Form</b>             | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.                                      |
| <b>Bio-activity</b>     | Immobilized Human GM-CSF at 2µg/ml (100µl/Well) on the plate. Dose response curve for Human GM-CSF R alpha, hFc Tag with the EC50 of 10.3ng/ml determined by ELISA. |
| <b>Molecular Mass</b>   | The protein has a predicted MW of 14.6 kDa same as Tris-Bis PAGE result.                                                                                            |
| <b>Endotoxin</b>        | Less than 1EU per µg by the LAL method.                                                                                                                             |
| <b>Purity</b>           | > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC                                                                                                   |
| <b>Storage</b>          | Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.                            |

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**Reconstitution**

Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.

**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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