

## GM-CSFR alpha Protein, Human, Recombinant (His) V2

## General Information

|                       |   |
|-----------------------|---|
| Synonyms:             | CD116;SMDP4;GM-CSF Receptor $\alpha$ Protein;GMCSFR;CDw116;CSF2RX;CSF2RAY;GM-CSF-R- $\alpha$ ;GMR;colony stimulating factor 2 receptor, $\alpha$ , low-affinity (granulocyte-macrophage);GM-CSF-R-alpha;CSF2RAX;CSF2R;CSF2RY;colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage) |
| Protein Construction: | Glu23-Gly320  |
| Species:              | Human   |
| Expression Host:      | HEK293 Cells  |
| Accession:            | P15509  |
| Molecular Weight:     | 35.5 kDa (Predicted); 60 kDa (Reducing conditions)  |

## QC Testing

|                      |   |
|----------------------|---|
| Biological Activity: | Measured by its ability to inhibit GM-CSF-dependent proliferation of TF-1 human erythroleukemic cells.The ED50 for this effect is 0.5-2 $\mu$ g/ml. (QC verified) |
| Purity:              | > 95% as determined by SDS-PAGE   |
| Endotoxin:           | < 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.   |
| Formulation:         | Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.  |

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100  $\mu$ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

Granulocyte-Macrophage Colony-Stimulating Factor Receptor Subunit  $\alpha$  (CSF2RA) is a single-pass type I membrane protein which belongs to the type I cytokine receptor family of Type 5 subfamily. The CSF2RA gene is found in the pseudoautosomal region (PAR) of the X and Y chromosomes with some of the isoforms being membrane-bound and others being soluble. CSF2RA is a low affinity receptor for granulocyte-macrophage

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colony-stimulating factor. CSF2RA transduces a signal that results in the proliferation, differentiation, and functional activation of hematopoietic cells. Defects in CSF2RA are the cause of pulmonary surfactant metabolism dysfunction type 4 (SMDP4).

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