

**Product Name:** Mouse CSF2RA Protein Dimer, His-Avi Tag

**Product Code:** CSP-25179-03

**FOR RESEARCH USE ONLY (RUO)**

**Protein Name:** CSF2R

**Alternate Name(s):** granulocyte-macrophage colony-stimulating factor receptor alpha, GMCSFR-alpha, GMR $\alpha$  subunit, Cluster of Differentiation 116, CD116, CDw116, CSF2R, CSF2RAX, CSF2RAY, CSF2RX, CSF2RY, GM-CSF-R-alpha, GMCSFR, GMR, SMDP4, alphaGMR, GMR-alpha

**Expression Host**  
HEK293T

**Amino Acid Range**  
1: L30-P327

**Protein Construct**

Recombinant mouse CSF2RA dimer protein (CSP-25179-03) is bioactive. Expressed in HEK293T cell line.

**SDS-Page Molecular Weight**

84 kDa. The migration range of the heterodimer protein with glycosylation under non-reducing conditions is between 120 and 190 kDa on SDS PAGE.

**Purity**

Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

**Formulation**

0.22 $\mu$ m filtered PBS, pH 7.4

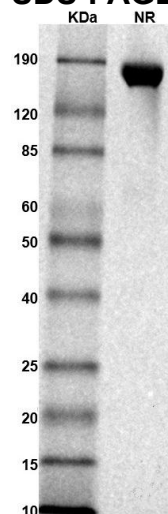
**Stability & Storage**

-80°C

**Shipping Conditions**

Frozen Dry Ice

**SDS-PAGE**

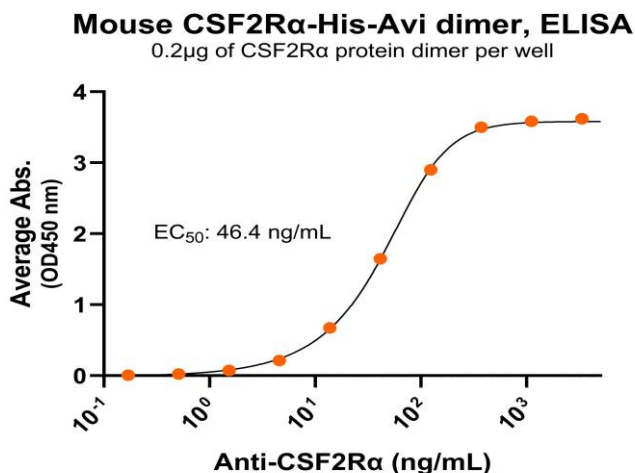


MW: Molecular Weight marker reduced condition

NR: CSF2Ra dimer under non-reduced condition

The migration range of the heterodimer protein with glycosylation under non-reducing conditions is between 120 and 190 kDa on SDS PAGE.

## Antibody Binding



Immobilized mouse CSF2R $\alpha$  protein dimer, His Tag (Cat No. CSP-25179-03) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind anti-mouse CSF2R $\alpha$  polyclonal antibody with half maximal effective concentration (EC<sub>50</sub>) range of 23.2-92.9 ng/mL (QC tested).

## Background

Colony stimulating factor 2 receptor subunit alpha (CSF2RA) is a Type 1 transmembrane glycoprotein. CSF2RA is also known as granulocyte-macrophage colony-stimulating factor receptor alpha (GMCSFR-alpha), GMR $\alpha$  subunit, and cluster of differentiation 116 (CD116). The CSF2RA extracellular domain contains two fibronectin type III (FN III) domains with a highly conserved WSXWS motif is present near the C-terminus of the second domain. CSF2RA is expressed on (cell types). CSF2RA is primarily located on neutrophils, eosinophils and monocytes/macrophages and is a receptor for granulocyte-macrophage colony-stimulating factor (GM-CSF). CSF2RA can form a heterodimer with CSF2RB and these heterodimers can form several multimers including a dodecamer. It has been found that CSF2RA specifically has tumor suppression characteristics that have made stimulating CSF2RA expression an emerging strategy in cancer therapy. While structurally and functionally similar to human CSF2RA homodimer, mouse CSF2RA homodimer is a species-specific tool essential for preclinical studies, basic research, and translational research.