

Bioactive, Recombinant Human CSF2RA Protein Dimer, His-Avi Tag Product Code: CSP-25172-03 For Research Use Only (RUO)

Protein Name CSF2RA

Alternate Name(s)

granulocyte-macrophage colony-stimulating factor receptor alpha, GMCSFR-alpha, GMRα subunit, Cluster of Differentiation 116, CD116, CDw116, CSF2R, CSF2RAX, CSF2RAY, CSF2RX, CSF2RY, GM-CSF-R-alpha, GMCSFR, GMR, SMDP4, alphaGMR, GMRalpha

Expression Host HEK293T

Purity

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

Protein Construct

CSF2RA dimer protein contains a CSF2RA extracellular domain (UniProt# P15509) fused with a proprietary cis-dimer motif followed by a tandem His-Avi tag at the C-terminus. Expressed in HEK293T cell line.

SDS-Page Molecular Weight

89 kDa. The migration range of the heterodimer protein with glycosylation under non-reducing condition is 120~190 kDa on SDS PAGE.

Shipping Conditions

Frozen Dry Ice

SDS-PAGE



MW: Molecular Weight marker reduced condition NR: $CSF2R\alpha$ under non-reduced condition

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

Amino Acid Range

E23-G320

Formulation

0.22µm filtered PBS, pH 7.4

Stability & Storage -80°C

Conigen Bioscience, Inc. | 17 Briden Street, Worcester, MA 01605 | 508-388-4188 | www.conigen.com



Bioactive, Recombinant Human CSF2RA Protein Dimer, His-Avi Tag Product Code: CSP-25172-03 For Research Use Only (RUO)



Immobilized human CSF2R α protein dimer, His Tag (CSP-25172-03) at 2 µg/mL (100 µL/well) can bind anti-human CSF2R α polyclonal antibody with half maximal effective concentration (EC50) range of 48.3-193.1 ng/mL (QC tested).



Human CSF2Rα-His-Avi dimer / GM-CSF, ELISA 0.2μg of GM-CSF protein per well



Immobilized human GM-CSF at 2 µg/mL (100 µL/well) can bind anti-human CSF2R α protein dimer, His Tag (CSP-25172-03) with half maximal effective concentration (EC50) range of 29.5-117.8 ng/mL (QC tested).



Immobilized human GM-CSF can bind human CSF2R α protein dimer, His Tag (CSP-25172-03) with a KD of 4.1-16.5 nM as determined by SPR.



Bioactive, Recombinant Human CSF2RA Protein Dimer, His-Avi Tag Product Code: CSP-25172-03 For Research Use Only (RUO)

Background

Human 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), GMRα 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.

Conigen Bioscience, Inc. | 17 Briden Street, Worcester, MA 01605 | 508-388-4188 | www.conigen.com