

Recombinant Human CSF2RA Protein, C-His-tagged

Cat. No. CSF2RA-021H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CSF2RA Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Granulocyte-macrophage colony-stimulating factor receptor subunit alpha (GM-CSF Receptor α), also known as CSF2RA and CD116, is a type 1 transmembrane protein with low affinity for GM-CSF. GM-CSF Receptor α is primarily expressed on myeloid cells, including granulocytes, monocytes, macrophages, and dendritic cells. GM-CSF Receptor α forms a heterodimeric receptor complex with GM-CSF Receptor β , creating the high affinity GM-CSF receptor. Upon dimerization and ligand binding, the β subunit becomes phosphorylated and transduces signals via Jak/STAT and MAPK pathways for cell proliferation, differentiation, and survival. Oligomerization of the high affinity GM-CSF Receptor α/β complex is required for optimal intracellular signal transduction. Soluble GM-CSF Receptor α , either secreted or cleaved from the cell surface, can competitively bind GM-CSF, preventing membrane receptor signaling. Multiple isoforms of GM-CSF Receptor α have been described.
Molecular Mass	~33 kDa
AA Sequence	EKSDLRTVAPASSLNVRFDSTMTNLSWDCQENTTFSKCFLTDKKNRVVEPRLSNNE CSCTFREICLHEGVTFEVHVNTSQRGFQKLLYPNSGREGTAAQNFSCFIYNADLM NCTWARGPTAPRDVQYFLYIRNSKRRREIRCPYYIQDSGTHVGCHLDNLSGLTSRN

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YFLVNGTSREIGIQFFDSLDTKKIERFNPPSNVTVRCNTTHCLVRWKQPRTYQKLSY
LDFQYQLDVHRKNTQPGTENLLINVSGDLENRYNFPSSSEPRAKHSVKIRAADVRLN
WSSWSEAIEFGSDDG

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

CSF2RA colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage) [Homo sapiens (human)]

Official Symbol

CSF2RA

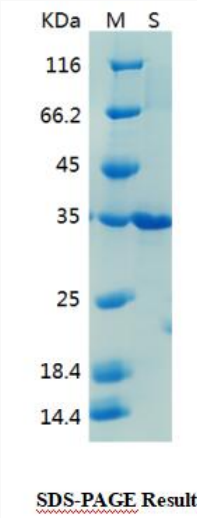
Synonyms

CSF2RA; colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage); CSF2R; granulocyte-macrophage colony-stimulating factor receptor subunit alpha; CD116; GMR-alpha; GMCSFR-alpha; CD116 antigen; GM-CSF receptor alpha subunit; colony stimulating factor 2 receptor alpha subunit; granulocyte-macrophage colony-stimulating factor receptor alpha chain; GMR; SMDP4; CDw116; CSF2RX; CSF2RY; GMCSFR; CSF2RAX; CSF2RAY; MGC3848; MGC4838; GM-CSF-R-alpha;

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Gene ID	1438
mRNA Refseq	NM_001161529
Protein Refseq	NP_001155001
MIM	306250
UniProt ID	P15509
SDS-PAGE	 SDS-PAGE Result