

Recombinant Human CSF1R Protein, C-His-tagged

Cat. No. CSF1R-020H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CSF1R Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Macrophage-colony stimulating factor (M-CSF, CSF-1) receptor is an integral membrane tyrosine kinase encoded by the c-fms proto-oncogene. M-CSF receptor is expressed in monocytes (macrophages and their progenitors) and drives growth and development of this blood cell lineage. Binding of M-CSF to its receptor induces receptor dimerization, activation, and autophosphorylation of cytoplasmic tyrosine residues used as docking sites for SH2-containing signaling proteins. There are at least five major tyrosine autophosphorylation sites. Tyr723 (Tyr721 in mouse) is located in the kinase insert (KI) region. Phosphorylated Tyr723 binds the p85 subunit of PI3 kinase as well as PLCy2. Phosphorylation of Tyr809 provides a docking site for Shc (5). Overactivation of this receptor can lead to a malignant phenotype in various cell systems. The activated M-CSF receptor has been shown to be a predictor of poor outcome in advanced epithelial ovarian carcinoma and breast cancer.
Molecular Mass	~55 kDa
AA Sequence	IPVIEPSVPELVVKPGATVTLRCVGNGSVEWDGPPSPHWTLYSDGSSSILSTNNATF QNTGTYRCTEPGDPLGGSAAIHLYVKDPAWPVNLAQEVVVFEDQDALLPCLLTDP VLEAGVSLVRVRGRPLMRHTNYSFSPWHGFTIHRAKFIQSQDYQCSALMGGRKVM

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SISIRLKVQKVIPGPPALTLVPAELVRIRGEAAQIVCSASSVDVNFDFVLQHNNTKLAIP
 QQSDFHNNRYQKVLTLNLDQVDFQHAGNYSCVASNVQGKHSTSMFFRVVESAYLN
 LSSEQNLIQEVTVGEGNLKVMVEAYPGLQGFWNTYLGPFSDHQPEPKLANATTKD
 TYRHTFTLSLPRPKPSEAGRYSFLARNPGGWRALTFELTLRYPPEVSVIWTFIGSG
 TLLCAASGYQPQNVTLQCSGHTDRCDEAQLQVWDDPYPEVLSQEPFHKVTVQS
 LLTVETLEHNQTYECRAHNSVSGSGSWAFIPISAGAHTHPDEFLEFTP

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

CSF1R colony stimulating factor 1 receptor [Homo sapiens (human)]

Official Symbol

CSF1R

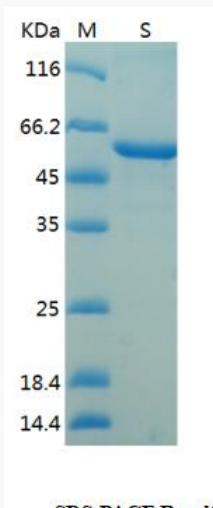
Synonyms

CSF1R; colony stimulating factor 1 receptor; FMS, McDonough feline sarcoma viral (v fms) oncogene homolog; macrophage colony-stimulating factor 1 receptor; C FMS; CD115; CSFR; CSF-1-R; CD115 antigen; CSF-1 receptor; FMS proto-oncogene; proto-oncogene c-Fms; macrophage colony stimulating factor I receptor; McDonough feline sarcoma viral (v-fms) oncogene homolog; FMS; FIM2; HDLS; C-FMS; CSF-1R; M-CSF-R;

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Gene ID	1436
mRNA Refseq	NM_005211
Protein Refseq	NP_005202
MIM	164770
UniProt ID	P07333
SDS-PAGE	 SDS-PAGE Result