

# Recombinant Human CSF1R Protein, MYC/DDK-tagged, C13 and N15-labeled

**Cat. No.** CSF1R-067H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

CSF1R MS Standard C13 and N15-labeled recombinant protein (NP\_005202) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### Description


The protein encoded by this gene is the receptor for colony stimulating factor 1, a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most if not all of the biological effects of this cytokine. Ligand binding activates the receptor kinase through a process of oligomerization and transphosphorylation. The encoded protein is a tyrosine kinase transmembrane receptor and member of the CSF1/PDGF receptor family of tyrosine-protein kinases. Mutations in this gene have been associated with a predisposition to myeloid malignancy. The first intron of this gene contains a transcriptionally inactive ribosomal protein L7 processed pseudogene oriented in the opposite direction. Alternative splicing results in multiple transcript variants. Expression of a splice variant from an LTR promoter has been found in Hodgkin lymphoma (HL), HL cell lines and anaplastic large cell lymphoma.

### Molecular Mass

107.8 kDa

### AA Sequence

MGPGVLLLLLVATAWHGQGIPVIEPSVPELVVKPGATVTLRCVGNNGSVEWDGPPSP

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HWTLYSDGSSSILSTNNATFQNTGTYRCTEPGDPLGGSSAAIHLYVKDPPARPWNVLA  
 QEVVVFEDQDALLPCLLTDPVLEAGVSLVRVRGRPLMRHTNYSFSPWHGFTIHRAK  
 FIQSQDYQCSALMGGRKVMSSIRLKVQKVIPGPPALTLVPAELVRIRGEAAQIVCSA  
 SSVDVNFDFVLQHNNTKLAIHQQSDFHNNRYQKVLTNLNDQVDFQHAGNYSCVASN  
 VQGKHSTSMFFRVVESAYLNLSSSEQNLIQEVTVGEGLNLKVMVEAYPGLQGFWNTY  
 LGPFSDHQPEPKLANVTTKD TYRHTFTLSLPR LKPSEAGRYSFLARNPGGWALTF  
 ELTLRYPPEVSVIWFINGSGTLLCAASGYQPNTWLQCSGHTDRCDEAQLQVW  
 DDPYPEVLSQEPFHKVTVQSLLTVETLEHNQTYECRAHNSVSGSWGAFIPISAGAHT  
 HPPDEF LFTPVVACMSIMALLLLLLLLLLLYKYKQKPKYQVRWKIIESYEGNSYTFIDP  
 TQLPYNEKWEFPRNNLQFGKTLGAGAFGKVV EATAFGLGKEDAVLKVAVKMLKSTA  
 HADEKESLMSELKIMSHLGQHENIVNLLGACTHGGPVLVITEYCCYGDLLNFLRKA  
 EAMLGPSLSPGQDPEGGV D YKNIHLEKKYVRRDSGFSSQGVD TYVEMRPVSTSSN  
 DSFSEQDLDKEDGRPLELRDLLHFSSQVAQGM AFLASKNCIHRDVAARNVLLTNGH  
 VAKIGDFGLARDIMNDSNYIVKGNARLPVKWMAPE SIFDCVYTVQSDVWSYGILLWE  
 IFSLGLNPYPGILVNSKFYKLVKDG YQMAQPAFAPKNIYSIMQACWALEP THRPTFQ  
 QICSFLQEQAQEDRRERDYTNLPSSSRSGSGSSSSELEEESSSEHLTCCEQGDIA  
 QPLLQPNNYQFCTRTRPLEQKLISEEDLAANDILDYKDDDDKV

<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

<b>Gene Name</b>	CSF1R colony stimulating factor 1 receptor [ Homo sapiens (human) ]
<b>Official Symbol</b>	CSF1R
<b>Synonyms</b>	CSF1R; colony stimulating factor 1 receptor; C-FMS; CD115; CSF-1R; CSFR; FIM2; FMS; HDLS; M-CSF-R; macrophage colony-stimulating factor 1 receptor; CD115 antigen; CSF-1 receptor; FMS proto-oncogene; McDonough feline sarcoma viral (v-fms) oncogene homolog; macrophage colony stimulating factor I receptor; proto-oncogene c-Fms; EC 2.7.10.1
<b>Gene ID</b>	1436
<b>mRNA Refseq</b>	NM_005211
<b>Protein Refseq</b>	NP_005202
<b>MIM</b>	164770
<b>UniProt ID</b>	P07333
<b>SDS-PAGE</b>	

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