

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	MGPGVLLLLLVATAWHGQGIPVIEPSVPELVVKPGATVTLRCVGNGSVEWDGPPSP

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HWTLYSDGSSSILSTNNATFQNTGTYRCTEPGDPLGGSAAIHLYVKDPARPWNVLA
 QEVVVFEDQDALLPCLLTDPVLEAGVSLVRVRGRPLMRHTNYSFSPWHGFTIHRAK
 FIQSQDYQCSALMGGRKVMSSISIRLKVQKVIPGPPALTLVPAELVRIRGEAAQIVCSA
 SSVDVNFDFVLQHNNTKLAIHQQSDFHNNRYQKVLTNLNDQVDFQHAGNYSVASN
 VQGHSTSMFFRVVESAYLNLSSSEQNLIQEVTVGEGLNLKVMVEAYPGLQGFWNTY
 LGPFSDHQPEPKLANVTTKDITYRHTFTLSLPRPKPSEAGRYSFLARNPGGWALTF
 ELTLRYPPEVSVIWFINGSGTLLCAASGYQPNTWLQCSGHTDRCDEAQVLQVW
 DDPYPEVLSQEPFHKVTVQSLLTVETLEHNQTYECRAHNSVSGSGSWAFIPISAGAHT
 HPPDEFLFTPVVACMSIMALLLLLLLLLLLYKYKQKPKYQVRWKIIESYEGNSYTFIDP
 TQLPYNEKWEFPRNNLQFGKTLGAGAFGKVVEATAFGLGKEDAVLKVAVKMLKSTA
 HADEKESLMSELKIMSHLGQHENIVNLLGACTHGGPVLVITEYCCYGDLLNFLRRKA
 EAMLGPSLSPGQDPEGVDYKNIHLEKKYVRRDSGFSSQGVDTYVEMRPVSTSSN
 DSFSEQDLKDGRPLELRDLLHFSSQVAQGMFLASKNCIHRDVAARNVLLTNGH
 VAKIGDFGLARDIMNDSNYIVKGNARLPVKWMAPEIFDCVYTVQSDVWSYGILLWE
 IFSLGLNPYPGILVNSKFYKLVKDGQMAQPAFAPKNIYSIMQACWALEPTHRPTFQ
 QICSFLQEQAQEDRRERDYTNLPSSSRSGSGSSSSELEEESSSEHLTCCEQGDIA
 QPLLQPNNYQFCTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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Gene Name	CSF1R colony stimulating factor 1 receptor [Homo sapiens (human)]
Official Symbol	CSF1R
Synonyms	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
Gene ID	1436
mRNA Refseq	NM_005211
Protein Refseq	NP_005202
MIM	164770
UniProt ID	P07333
SDS-PAGE	