

Recombinant Human CSF1R Protein, Fc-tagged

Cat. No. CSF1R-374H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human CSF1R protein with Fc tag was expressed in HEK293.

Species Human

Source HEK293

ProteinLength 972

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.

Form Lyophilized

Molecular Mass 80.7 kDa

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AA Sequence

MGPGLLLLLLVATAWHGQGIPVIEPSVPELVVVKPGATVTLRCVGNNGSVEWDGPPSP
 HWTLYSDGSSSILSTNNATFQNTGTYRCTEPGDPLGGSAIHLVVKDPPARPWNVLA
 QEVVVFEDQDALLPCLLTDPVLEAGVSLVRVRGRPLMRHTNYSFSPWHGFTIHRAK
 FIQSQDYQCSALMGGGRKVMSSIRLKVQKVIPGPPALTLVPAELVRIRGEAAQIVCSA
 SSVDVNFDFVLQHNNTKLAIPQQSDFHNNRYQKVLTLNLDQVDFQHAGNYSCVASN
 VQGGHSTSMFFRVVESAYLNLSSSEQNLIQEVTVGEGLNLKVMVEAYPGLQGFWNTY
 LGPFSDHQPEPKLANATTKD TYRHTFTLSLPR LKPSEAGRYSFLARNPGGWALTF
 ELTLRYPPEVSVIWT FINGSGTLLCAASGYQPNTWLQCSGHTDRCD EAVLQVW
 DDPYPEVLSQEPFHKVTVQSLLTVETLEHNQTYECRAHNSVSGSGSWAFIPISAGAHT
 HPPDEF LFTPVVACMSIMALLLLLLLLLLLYKYKQKPKYQVRWKIIESYEGNSYTFIDP
 TQLPYNEKWEFPRNNLQFGKTLGAGAFGKVVEATAFGLGKEDAVLKVAVKMLKSTA
 HADEKEALMSELKIMSHLGQHENIVNLLGACTHGGPVLVITEYCCYGDLLNFLRKA
 EAMLGPSLSPGQDPEGGV D YKNIHLEKKYVRRDSGFSSQGVDTYVEMRPVSTSSN
 DSFSEQDLDKEDGRPLELRDLLHFSSQVAQGM AFLASKNCIHRDVAARNVLLTNGH
 VAKIGDFGLARDIMNDSNYIVKGNARLPVKWMA PESIFDCVYTVQSDVWSYGILLWE
 IFSLGLNPYPGILVNSKFYKLVKDG YQMAQPAFAPKNIYSIMQACWALEP THRPTFQ
 QICSFLQEQAQEDRRERDYTNLPSSSRSGSGSSSSELEEESSSEHLTCCEQGDIA
 QPLLQPNNYQFC

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

Concentration 1 mg/mL

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Storage Buffer PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

Reconstitution Reconstitute in sterile distilled H₂O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

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;

Gene ID [1436](#)

mRNA Refseq [NM_005211](#)

Protein Refseq [NP_005202](#)

MIM [164770](#)

UniProt ID [P07333](#)

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