

Recombinant Human CSF1R Protein, His-tagged

Cat. No. CSF1R-373H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CSF1R protein with His 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	55.1 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

MGPGLLLLLLVATAWHGQGIPVIEPSVPELVVKPGATVTLRCVGNNGSVEWDGPPSP
 HWTLYSDGSSSILSTNNATFQNTGTyrCTEPGDPLGGSAAIHLYVKDPAWPWNVLA
 QEVVVFEDQDALLPCLLTDPVLEAGVSLVRVRGRPLMRHTNYSFSPWHGFTIHRAK
 FIQSQDYQCSALMGGRKVMSSIRLKVQKVIPGPPALTLVPAELVRIRGEAAQIVCSA
 SSVDVNFDFVLQHNNTKLAIPQQSDFHNNRYQKVLTLNLDQVDFQHAGNYSCVASN
 VQGHSTSMFFRVVESAYLNLSSSEQNLIQEVTVGEGLNLKVMVEAYPGLQGFWNTY
 LGPFSDHQPEPKLANATTKDtyRHTFTLSLPRLPSEAGRYSFLARNPGGWALTF
 ELTLRYPPEVSVIWTfINGSGTLLCAASGYQPNTWLQCSGHTDRCDEAQVLQVW
 DDPYPEVLSQEPFHKVTVQSLTvetLEHNQTYECRAHNSVGSGSWAFIPISAGAHT
 HPPDEFLFTPVVVACMSIMALLLLLLLLLLLYKYKQKPKYQVRWKIIESYEGNSYTFIDP
 TQLPYNEKWEFPRNNLQFGKTLGAGAFGKVVEATAFGLGKEDAVLKVAVKMLKSTA
 HADEKEALMSELKIMSHLGQHENIVNLLGACTHGPPVLVITEYCCYGDLLNFLRRKA
 EAMLGPSLSPGQDPEGVDYKNIHLEKKYVRRDSGFSSQGVDTYVEMRPVSTSSN
 DSFSEQDLKDGRPLELRDLLHFSSQVAQGMFLASKNCIHRDVAARNVLLTNGH
 VAKIGDFGLARDIMNDSNYIVKGNARLPVKWMAPEsIFDCVYTVQSDVWSYGILLWE
 IFSLGLNPYPGILVNSKFYKLVKDGyQMAQPAFAPKNIYSIMQACWALEPThrPTFQ
 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 H ₂ O 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