

Recombinant Full Length Human CSF1R Protein, C-Flag-tagged

Cat. No. CSF1R-1085HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CSF1R Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	107.8 kDa

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AA Sequence

MGPGLLLLLLVATAWHGQGIPVIEPSVPELVVKPGATVTLRCVGNNGSVEWDGPPSP
 HWTLYSDGSSSILS TNNATFQNTGTyrCTEPGDPLGGSAAIHLYVKDPAWPWNVLA
 QEVVVFEDQDALLPCLLTDPVLEAGVSL VRVRGRPLMRHTNYSFSPWHGFTIHRAK
 FIQSQDYQCSALMGGRKVMSSIRLKVQKVIPGPPALTLVPA ELVRIRGEAAQIVCSA
 SSVDVNFDFVLQHNNTKLAIHQQSDFHNNRYQKVLTLNLDQVDFQHAGNYSCVA S
 NVQKGHSTSMFFRVVESAYLNLSSSEQNLIQEVTVGEGLNLKVMVEAYPGLQGFNWT
 YLGPFSDHQPEPK LANVTTKDTYRHTFTLSLPRLPSEAGRYSFLARNPGGWRAIT
 FELTLRYPPEVSVIWTfINGSGTLLCA ASGYQPNTWLQCSGHTDRCDQAQVLQV
 WDDPYPEVLSQEPFHKVTQSLTETLEHNQTYECRAHNS VGSGSWAFIPISAGA
 HTHPPDEFLFTPVVACMSIMALLLLLLLLLLLYKYKQKPKYQVRWKIIESYEGNS YTFI
 DPTQLPYNEKWEFPRNNLQFGKTLGAGAFGKVVEATAFGLGKEDAVLKVAVKMLKS
 TAHADKESL MSELKIMSHLGQHENIVNLLGACTHGGPVLVITEYCCYGDLLNFLRR
 KAEAMLGPSLSPGQDPEGVDYK NIHLEKKYVRRDSGFSSQGVDTYVEMRPVSTS
 SNDSFSEQDLKEDGRPLELRDLLHFSSQVAQGMFLA SKNCIHRDVAARNVLLTN
 GHVAKIGDFGLARDIMNDSNYIVKGNARLPVKWMAPEsIFDCVYTVQSDVWS YGILL
 WEIFSLGLNPYPGILVNSKFYKLVKDGyQMAQPAFAPKNIYSIMQACWALEPThrPT
 FQQICSFL
 QEQAQEDRRERDYTNLPSSSRSGSGSSSSELEEESSSEHLTCCEQGDIAQPLLQP
 NNYQFCTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity

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

Stability

Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage

Store at -80 centigrade.

Concentration

>50 ug/mL as determined by microplate BCA method.

Preparation

Recombinant protein was captured through anti-DDK affinity column followed by

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conventional chromatography steps.

Protein Families Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways Cytokine-cytokine receptor interaction, Endocytosis, Hematopoietic cell lineage, Pathways in cancer

Full Length Full L.

GENE INFORMATION

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

Official Symbol CSF1R

Synonyms FMS; CSFR; FIM2; HDLS; C-FMS; CD115; HDLS1; CSF-1R; BANDDOS; M-CSF-R

Gene ID 1436

mRNA Refseq NM_005211.4

Protein Refseq NP_005202.2

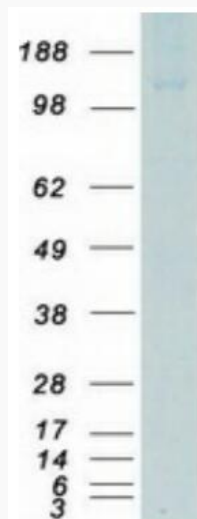
MIM 164770

UniProt ID P07333

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Coomassie blue staining of purified CSF1R protein.

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