

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

MGPGLLLLLLVATAWHGQGIPVIEPSVPELVVKGATVTLRCVGNNGSVEWDGPPSP
 HWTLYSDGSSSILS TNNATFQNTGTYRCTEPGDPLGGSAAIHLYVKDPPARPWNVLA
 QEVVVFEDQDALLPCLLTDPVLEAGVSL VRVRGRPLMRHTNYSFSPWHGFTIHRAK
 FIQSQDYQCSALMGGGRKVMSSIRLKVQKVIPGPPALTLVPA ELVRIRGEAAQIVCSA
 SSVDVNFDFVLQHNNTKLAIHQQSDFHNNRYQKVLTLNLDQVDFQHAGNYSCVA S
 NVQKGHSTSMFFRVVESAYLNLSSEQNLIQEVTVGEGNLKVMVEAYPGLQGFWNT
 YLGPFSHDHQPEPK LANVTTKDTYRHTFTLSLPRLPSEAGRYSFLARNPGGWRAIT
 FELTLRYPPEVSVIWTFFINGSGTLLCA ASGYQPNTWLQCSGHTDRCDEAQVLQV
 WDDPYPEVLSQEPFHKVTVQSLTETLEHNQTYECRAHNS VSGSGWAFIPISAGA
 HTHPPDEFLLFTPVVACMSIMALLLLLLLLLLLYKYKQKPKYQVRWKIIESYEGNS YTFI
 DPTQLPYNEKWEFPRNNLQFGKTLGAGAFGKVVEATAFGLGKEDAVLKVAVKMLKS
 TAHADKESL MSELKIMSHLGQHENIVNLLGACTHGGPVLVITEYCCYGDLLNFLRR
 KAEAMLGPSLSPGQDPEGGVYDYNHLEKKYVRRDSGFSSQGVDTYVEMRPVSTS
 SNDSFSEQDLKEDGRPLELRDLLHFSSQVAQGMFLA SKNCIHRDVAARNVLLTN
 GHVAKIGDFGLARDIMNDSNYIVKGNARLPVKWMAPEIFDCVYTVQSDVWS YGILL
 WEIFSLGLNYPYGILVNSKFYKLVKDGYPMAQPAFAPKNIYSIMQACWALEPTHRPT
 FQQICSFL
 QEQAQEDRRERDYTNLPSSSRSGGSGSSSELEEESSSEHLTCCEQGDIAPLLQP
 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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