

Active Recombinant Human CSF1R Protein, GST-tagged

Cat. No. CSF1R-1964H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CSF1R (NP_005202.2, 538 a.a. - 972 a.a.) partial recombinant protein with GST tag expressed in Baculovirus infected Sf21 cells.
Species	Human
Source	Insect Cells
ProteinLength	538-972 a.a.
Description	<p>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. [provided by RefSeq, Mar 2017]</p>
Form	Liquid
Bio-activity	The activity was measured by off-chip mobility shift assay. The enzyme was

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

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

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incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip™3000. Substrate : Src tide. ATP: 100 μM.

Molecular Mass 76 kDa

Purity 77 % by SDS-PAGE/CBB staining.

Applications Functional Study
SDS-PAGE

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)

GENE INFORMATION

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

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

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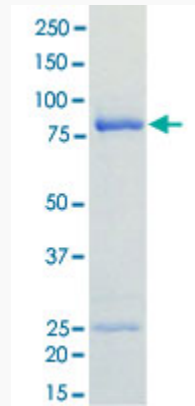
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Protein Refseq NP_005202

MIM 164770

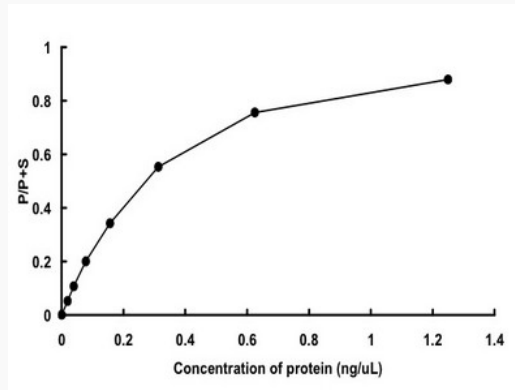
UniProt ID P07333


Quality Control Testing:



Loading 1 μ g protein in SDS-PAGE

Result of activity analysis



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