

Recombinant Human Colony Stimulating Factor 1 Receptor

Cat. No. CSF1R-1666H Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	Mammalian Cells
Description	Macrophage colony-stimulating factor (M-CSF, also termed CSF-1) receptor is an integral membrane tyrosine kinase, expressed in monocytes (macrophages and their progenitors) and drives growth and development of this blood cell lineage. It also triggers growth and development of mononuclear phagocytes and placental trophoblasts. M-CSF receptor is present in osteoclasts both at mRNA and protein levels. When M-CSF ligand specifically binds to the M-CSF receptor on osteoclasts, it induces receptor dimerization, activation and autophosphorylation of cytoplasmic tyrosine residues M-CSF and its receptor present as candidate therapeutic targets in states of inflammatory bone erosion.
Molecular Weight	The predicted molecular weight of Recombinant Human M-CSF R is 81 kDa. However, as a result of glycosylation, the actual molecular weight of the monomer as observed by migration on SDS Page is 150 kDa.
State Of Matter	Lyophilized.
Purity	>97% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Storage	This lyophilized protein is stable for six to twelve months when stored desiccated at -

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

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

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20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	CSF1R colony stimulating factor 1 receptor [Homo sapiens]
Synonyms	CSF1R; colony stimulating factor 1 receptor; CSFR; FIM2; C-FMS; CD115; CD115 antigen; FMS proto-oncogene; macrophage colony stimulating factor I receptor; McDonough feline sarcoma viral (v-fms) oncogene homolog; Macrophage colony-stimulating factor 1 receptor; CSF-1-R; EC 2.7.10.1; c-fms; soluble CSF1R variant 1
Gene ID	1436
mRNA Refseq	NM_005211
Protein Refseq	NP_005202
MIM	164770
UniProt ID	P07333
Chromosome Location	5q32
Pathway	Cytokine-cytokine receptor interaction; Endocytosis; Hematopoietic cell lineage; Pathways in cancer
Function	ATP binding; cytokine binding; macrophage colony stimulating factor receptor activity;

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nucleotide binding; protein homodimerization activity; receptor activity; transferase activity

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