

Macrophage colony-stimulating factor 1 receptor Recombinant Protein | CSF1R recombinant protein

Recombinant Cat Macrophage colony-stimulating factor 1 receptor

CATALOG # AAA81663	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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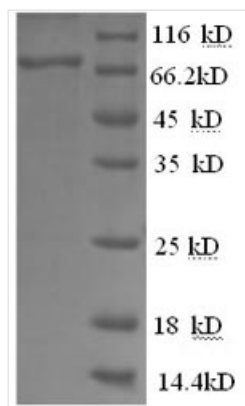
PRODUCT SYNONYMS

Macrophage colony-stimulating factor 1 receptor; Recombinant Cat Macrophage colony-stimulating factor 1 receptor; CSF-1 receptor (EC:2.7.10.1); CSF-1-R; CSF-1R; M-CSF-R; Proto-oncogene c-Fms; CD_antigen: CD115; CSF1R recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	20-514aa; Extracellular domain
Sequence	VPVIQPSGPE LVVEPGTTVT LRCVGNGSVE WDGPISPHWN LDLDPPSSIL TTNNATFQNT GTYHCTEPGN PQGGNATIHL YVKDPAWPWK VLAQEVTVLE GQDALLPCLL TDPAL EAGVS LVRVRGRPVL RQTNYSFSPW HGFTIHKAKF IENHVIYQCSA RVDGRTVTSM GIWLKVQKDI SGPATLTLEP AELVRIQGEA AQIVCSASNI DVNFDVSLRH GDTKLTISQQ SDFHDNRYQK VLTNLNDHVS FQDAGNYSCT ATNAWGNHSA SMVFRVVESA YLNLTSEQSL LQEVTVGEKV DLQVKVEAYP GLESFNWTYL GPFSDYQDKL DFVTIKDTYR YTSTLSLPRL KRSEAGRYSF LARNAGGQNA LTFELTLRYP PEVRVTMTLI NGSDTL LCEA SGYPQPSVTW VQCRSHTDRC DESAGLVLED SHSEVLSQVP FHEVIVHSL AIGTLEHNRT YECRAFNSVG NSSQTFWPIS IGAHTQLPDE LLFTP
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CSF1R recombinant protein	Tyrosine-protein kinase that acts as cell-surface receptor for CSF1 and IL34 and plays an essential role in the regulation of survival, proliferation and differentiation of hatopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. Promotes the release of proinflammatory chokines in response to IL34 and CSF1, and thereby plays an important role in innate immunity and in inflammatory processes. Plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone and tooth development. Required for normal male and fale fertility, and for normal development of milk ducts and acinar structures in the mammary gland during pregnancy. Promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration, and promotes cancer cell invasion. Activates several signaling pathways in response to ligand binding. Phosphorylates PIK3R1, PLCG2, GRB2, SLA2 and CBL. Activation of PLCG2 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate, that then lead to the activation of protein kinase C family members, especially PRKCD. Phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, leads to activation of the AKT1 signaling pathway. Activated CSF1R also mediates activation of the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1, and of the SRC family kinases SRC, FYN and YES1. Activated CSF1R transmits signals both via proteins that directly interact with phosphorylated tyrosine residues in its intracellular domain, or via adapter proteins, such as GRB2. Promotes activation of STAT family members STAT3, STAT5A and/or STAT5B. Promotes tyrosine phosphorylation of SHC1 and INPP5D/SHIP-1. Receptor signaling is down-regulated by protein phosphatases, such as INPP5D/SHIP-1, that dephosphorylate the receptor and its downstream effectors, and by rapid internalization of the activated receptor.
References	Activation of the feline c-fms proto-oncogene multiple alterations are required to generate a fully transformed phenotype.Woolford J., McAuliffe A., Rohrschneider L.R.Cell 55:965-977(1988)

NCBI AND UNIPROT INFORMATION

NCBI GI #	57163771
NCBI GeneID	493706
NCBI Accession #	NP_001009231.1
NCBI GenBank Nucleotide #	NM_001009231.1
UniProt Accession #	P13369
Molecular Weight	70.8 kDa
NCBI Official Full Name	macrophage colony-stimulating factor 1 receptor
NCBI Official Symbol	CSF1R
NCBI Official Synonym Symbols	CSF1; M-CSF; CSF-1R; M-CSF-R
NCBI Protein Information	macrophage colony-stimulating factor 1 receptor
UniProt Protein Name	Macrophage colony-stimulating factor 1 receptor
UniProt Gene Name	CSF1R
UniProt Synonym Gene Names	FMS; CSF-1-R; CSF-1R; M-CSF-R
UniProt Entry Name	CSF1R_FELCA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.