

## Product datasheet for TP511364

### Csf1r (NM\_001037859) Mouse Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse colony stimulating factor 1 receptor (Csf1r), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>MR211364 representing NM_001037859 Red=Cloning site Green=Tags(s)
	<p>MELGPPLVLLLATVWHGQGAPVIEPSGPELVVEPGETVTLRCVSNNGSVEWDGPISPYWTLDPESPGSTLT            TRNATFKNTGTYRCTELEDPMAGSTTIHLYVKDPAHSWNLLAQEVTVEGQEAVLPLCLITDPALKDSVSL            MREGGRQVLRKTVYFFSPWRGFIIRKAKVLDSNTYVCKTMVNGRESTSTGIWLKVNVRVHPEPPQIKLEPS            KLVIRIGEAAQIVCSATNAEVGFNVILKRGDTKLEIPLNSDFQDNYYKKVRALSLNAVDFQDAGIYSCVA            SNDVGTRTATMNFQVVEAYLNLTSSEQSLLQEVSVGDSLILTVHADAYPSIQHYNWYTLGPFEDQRKLE            FITQRAIYRYTFKLFNLRVKASEAGQYFLMAQNKAGWNNTFELTLRYPPEVSVTWMPVNGSDVLFCDVS            GYPQPSVTWMECRGHTDRCDQAALQVWNDTHPEVLSQKPFDKVIIQSQPLIGTLKHNMTYFCKTHNSVG            NSSQYFRAVSLGQSKQLPDESLFTPWWACMSVMSLLVLLLLLLLYKYKQPKYQVRWKIERYEGNSYT            FIDPTQLPYNEKWEFPRNLLQFGKTLGAGAFGKVEATAFGLGKEDAVLKVAVKMLKSTAHADKEALMS            ELKIMSHLGQHENIVNLLGACTHGGPVLVITEYCCYGDLLNFLRRKAEAMLGPSLSPGQDSEGDSSYKNI            HLEKKYVRRDSGFSSQGVDTYVEMRPVSTSSSDSFFKQDLDKASRPLELWDLHFFSSQVAQGMFLASK            NCIHRDVAARNVLLTSGHVAKIGDFGLARDIMNDSNYVVKGNARLPVKWMAPEIFDCVYTVQSDVWSYG            ILLWEIFSLGLNPYPGILVNNKFYKLVKDGYPVQMAQPVFAPKNIYSIMQSCWDLEPTRRPTFQQICFLLQE            QARLERRDQDYANLPSSGGSSGSDSGGGSSGSSSEPEEESSEHLACCEPGDIAQPLLQPNNYQFC</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
<b>Tag:</b>	C-MYC/DDK
<b>Predicted MW:</b>	109.6 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001032948</a>
<b>Locus ID:</b>	12978
<b>UniProt ID:</b>	<a href="#">P09581</a> , <a href="#">Q6NXV8</a> , <a href="#">Q3UKC6</a> , <a href="#">Q0P635</a>
<b>RefSeq Size:</b>	3875
<b>Cytogenetics:</b>	18 34.41 cM
<b>RefSeq ORF:</b>	2931
<b>Synonyms:</b>	AI323359; CD115; CSF-1R; Csfmr; Fim-2; Fim2; Fms; M-CSF-R; M-CSFR
<b>Summary:</b>	<p>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 hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and monocytes. Promotes the release of proinflammatory chemokines 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 female 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.[UniProtKB/Swiss-Prot Function]</p>