

# Recombinant Human CSF1R/M-CSF R/CD115 Protein

## RPCB1220



### Product Information

<b>Product SKU:</b>	RPCB1220	<b>Gene ID:</b>	1436	<b>Size:</b>	10µg
<b>Tag:</b>	C-hFc&His	<b>Reactivity:</b>	Human		

### Additional Information

<b>Expression Host:</b>	HEK293 cells	<b>Swissprot:</b>	P07333
<b>Purity:</b>	> 95% by SDS-PAGE.		

### Protein Information

**Background:** The recombinant human CSF1R/GST chimera consists of 667 amino acids with a molecular weight of 76 KDa. It migrates as an about 75 KDa band in SDS-PAGE under reducing conditions. M-CSFR encoded by the proto-oncogene *c-fms* is the receptor for colony stimulating factor 1 (CSF1R), a cytokine involved in the proliferation, differentiation, and activation of macrophages. This cell surface glycoprotein is consisted by an extracellular ligand-binding domain, a single membrane-spanning segment, and an intracellular tyrosine kinase domain. CSF1R is a receptor for a cytokine called colony stimulating factor 1, The protein encoded by the *CSFR1* 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 CSFR1 through a process of oligomerization and transphosphorylation. Mutations in CSF1R are associated with chronic myelomonocytic leukemia and type M4 acute myeloblastic leukemia. Increased levels of CSF1R1 are found in microglia in Alzheimer's disease and after brain injuries. The role of CSF1 and CSF1R in normal and neoplastic mammary development that may elucidate potential relationships of growth factor-induced biological changes in the breast during pregnancy and tumor progression.

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**Protein Description:** High quality, high purity and low endotoxin recombinant Recombinant Human CSF1R/M-CSF R/CD115 Protein , tested reactivity in HEK293 cells and has been validated in SDS-PAGE.100% guaranteed.

**Endotoxin:** <0.1EU/μg

**Formulation:** Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

**Storage:** Store at -20°C.Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

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