

Datasheet for ABIN4949179  
**CSF1R Protein (AA 20-511) (His tag)**



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2 Images

## Overview

Quantity:	100 µg
Target:	CSF1R
Protein Characteristics:	AA 20-511
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CSF1R protein is labelled with His tag.
Application:	Functional Studies (Func)

## Product Details

Sequence:	AA 20-511
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 57.1 kDa. The protein migrates as 66-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	CSF1R
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## Target Details

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Alternative Name: [M-CSF R \(CSF1R Products\)](#)

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Background: Colony stimulating factor 1 receptor (CSF1R) is also known as macrophage colony-stimulating factor receptor (M-CSFR), CD115 Cluster of Differentiation 115 (CD115), C-FMS, CSFR, FIM2, FMS, and is a member of the typeIII subfamily of receptor tyrosine kinases (RTKs). 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 increased receptor expression causes microglia to become more active. Both CSF1R, and its ligand colony stimulating factor 1 play an important role in the development of the mammary gland and may be involved in the process of mammary gland carcinogenesis.

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Molecular Weight: 57.1 kDa

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NCBI Accession: [NP\\_001032948](#)

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Pathways: [RTK Signaling](#), [Inositol Metabolic Process](#), [Cell-Cell Junction Organization](#)

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## Application Details

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Buffer: PBS, pH 7.4

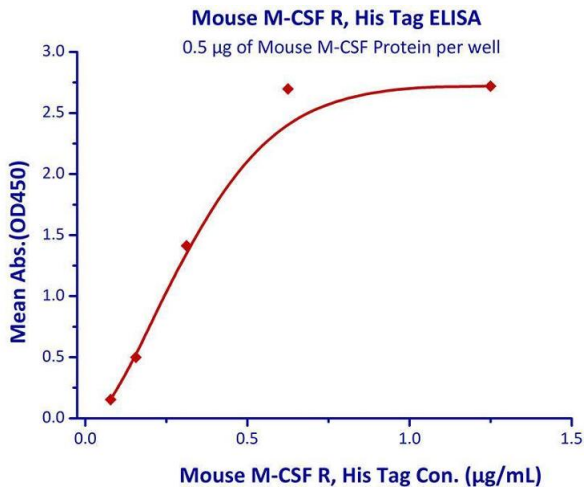
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Handling Advice: Please avoid repeated freeze-thaw cycles.

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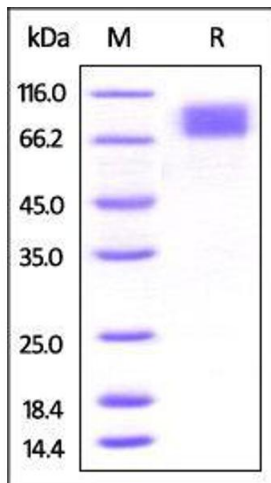
Storage: -20 °C

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### Binding Studies

**Image 1.** Immobilized Mouse M-CSF Protein at 5µg/mL (100 µL/well) can bind Mouse M-CSF R, His Tag with a linear range of 0.078-0.625 µg/mL.



### SDS-PAGE

**Image 2.** Mouse M-CSF R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.