

# Alexa Fluor™ 488-Labeled Human M-CSF R / CSF1R / CD115 Protein, His TagStar Staining (HPLC verified)

Catalog # CSR-HA2H3



BIOSYSTEMS  
**Acro**

Surprise Inside!

## Synonym

CSF1R, C-FMS, CD115, CSFR, FIM2, FMS, M-CSFR

## Source

Alexa Fluor 488-Labeled Human M-CSF R Protein, His Tag (CSR-HA2H3) is produced via conjugation of AF488 to Human M-CSF R, His Tag with a new generation site-specific technology under Star Staining labeling platform. Human M-CSF R, His Tag is expressed from human 293 cells (HEK293). It contains AA Ile 20 - Glu 512 (Accession # [P07333](#)).

Predicted N-terminus: Ile 20

## Molecular Characterization

M-CSF R(Ile 20 - Glu 512)  
P07333

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 71.2 kDa. The protein migrates as 80-120 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Conjugate

AF488

Excitation Wavelength: 488 nm

Emission Wavelength: 517 nm

## Protein Ratio

The AF488 to protein molar ratio is **0.5-1**.

## Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

## Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please protect from light and avoid repeated freeze-thaw cycles.**

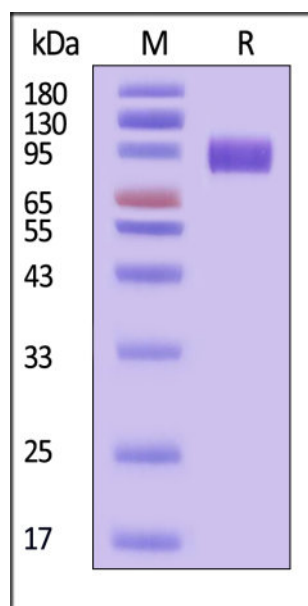
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

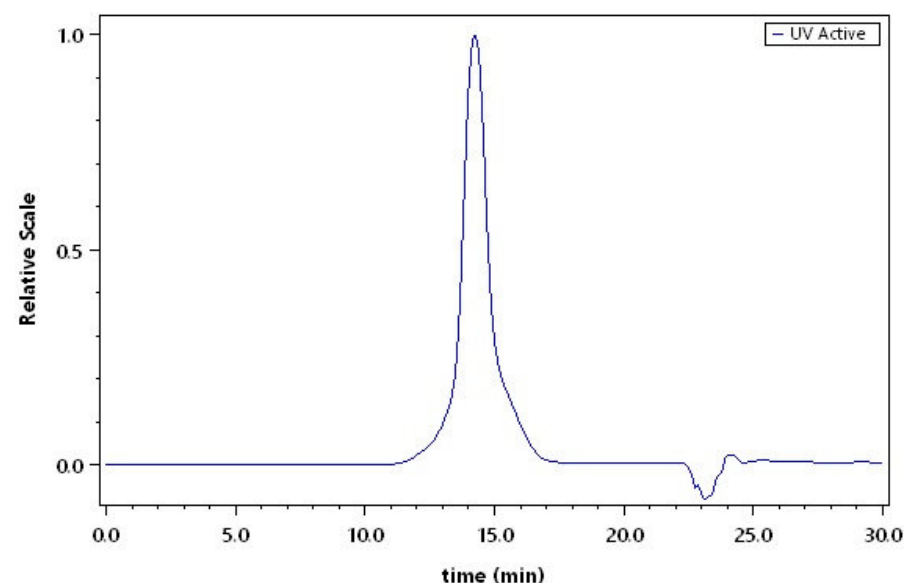
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



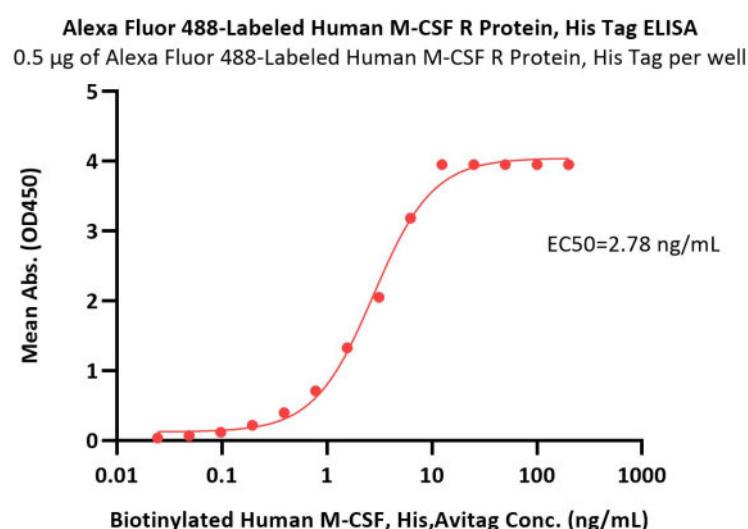
Alexa Fluor 488-Labeled Human M-CSF R Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-HPLC



The purity of Alexa Fluor 488-Labeled Human M-CSF R Protein, His Tag (Cat. No. CSR-HA2H3) was greater than 90% as determined by SEC-HPLC.

## Bioactivity-ELISA



Immobilized Alexa Fluor 488-Labeled Human M-CSF R Protein, His Tag (Cat. No. CSR-HA2H3) at 5 µg/mL (100 µL/well) can bind Biotinylated Human M-CSF, His, Avitag (Cat. No. MCF-H82E6) with a linear range of 0.02-13 ng/mL (QC tested).

## 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 type III 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 CSF1R 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 CSF1R 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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