PE-Labeled Human M-CSF R / CSF1R / CD115 Protein, His Tag (Site-specific conjugation)

Catalog # CSR-HP2E3

Synonyms

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

Source

PE-Labeled Human M-CSF R Protein, His Tag (CSR-HP2E3) produced via site-specific conjugation of PE to Human M-CSF R Protein, His Tag under optimal conditions with a proprietary technology. Human M-CSF R Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Ile 20 - Glu 512 (Accession # P07333-1).

Predicted N-terminus: Ile 20

Molecular Characterization



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

The protein has a calculated MW of 57.1 kDa.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, 0.5% BSA, 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.

Shipping and Storage

This product is shipped at ambient temperature.

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.

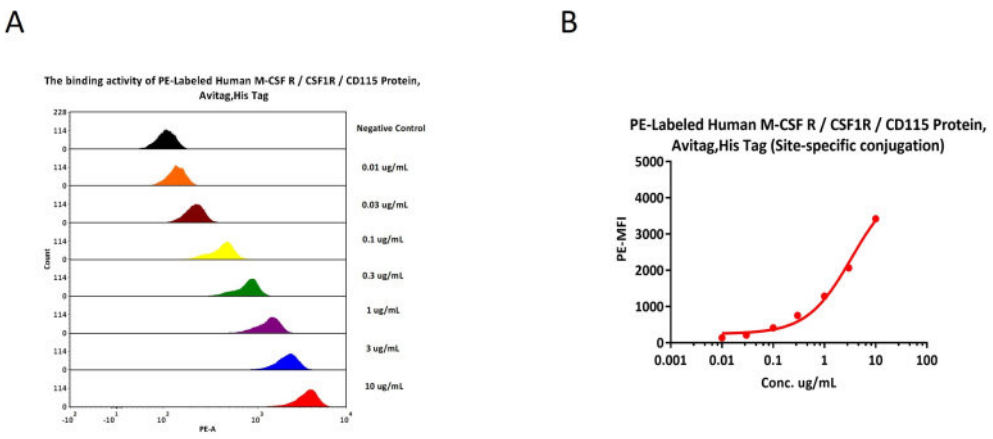
This product is stable after storage at:

- -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

Activity-Flow Cytometry



1e5 of Human M-CSF coupled beads (5.5μm) were stained with different concentration of PE-Labeled Human M-CSF R Protein, His Tag (Cat. No. CSR-HP2E3) and negative control protein respectively, PE signal was used to evaluate the binding activity (QC tested).

Background

M-CSF receptor (CSF1R) is a tyrosine kinase receptor expressed almost exclusively on monocytes and macrophages, where it regulates survival, proliferation, and differentiation. Its highly restricted expression pattern—absent on most other immune cells including lymphocytes and granulocytes—makes CSF1R a reliable lineage-specific marker for macrophages. Upon binding its ligand M-CSF, CSF1R dimerizes and activates downstream signaling cascades essential for macrophage homeostasis. This macrophage-restricted expression profile has established CSF1R as an attractive targeting moiety for in vivo macrophage-directed therapies, including CAR-M platforms, where receptor-specific antibodies enable selective recognition and engagement of macrophages.

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