



Synonym

CD56, MSK39, NCAM1, N-CAM-1

Source

Alexa Fluor 647-Labeled Human NCAM-1 Protein, His Tag (NC1-HA2H4) is produced via conjugation of AF647 to Human NCAM-1, His Tag with a new generation site-specific technology under Star Staining labeling platform. Human NCAM-1, His Tag is expressed from human 293 cells (HEK293). It contains AA Leu 20 - Gly 718 (Accession # [P13591-2](#)).

Predicted N-terminus: Leu 20

Molecular Characterization

NCAM-1(Leu 20 - Gly 718)
P13591-2

Poly-his

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

The protein has a calculated MW of 94.3 kDa. The protein migrates as 100-130 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

AF647

Excitation Wavelength: 640 nm

Emission Wavelength: 672 nm

Protein Ratio

The AF647 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.

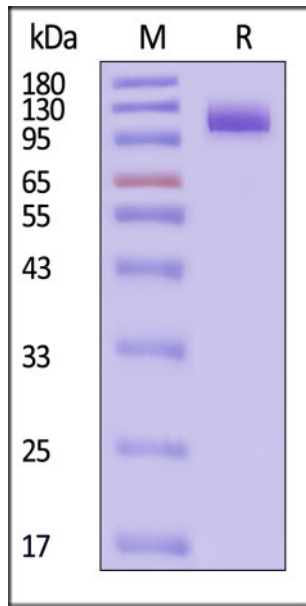
This product is stable after storage at:

- -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

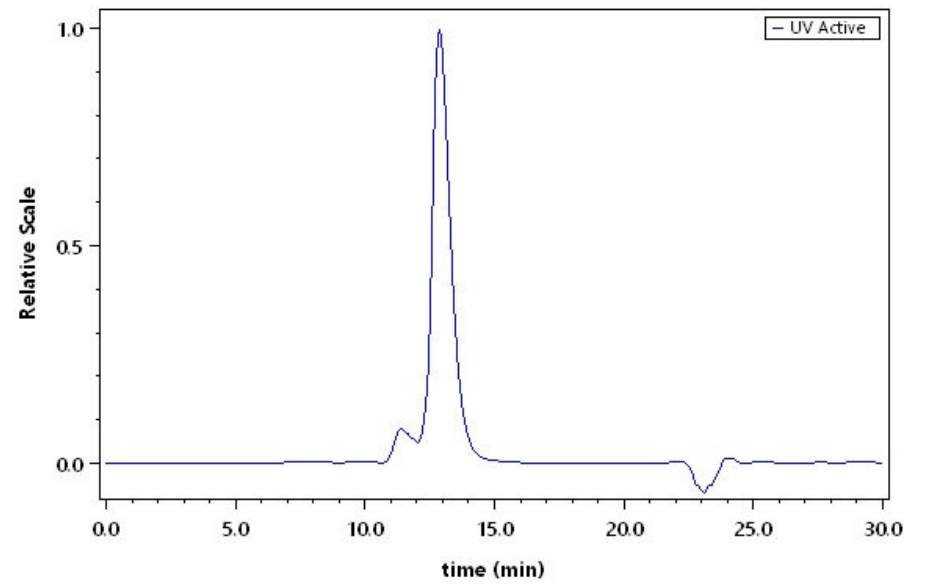
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



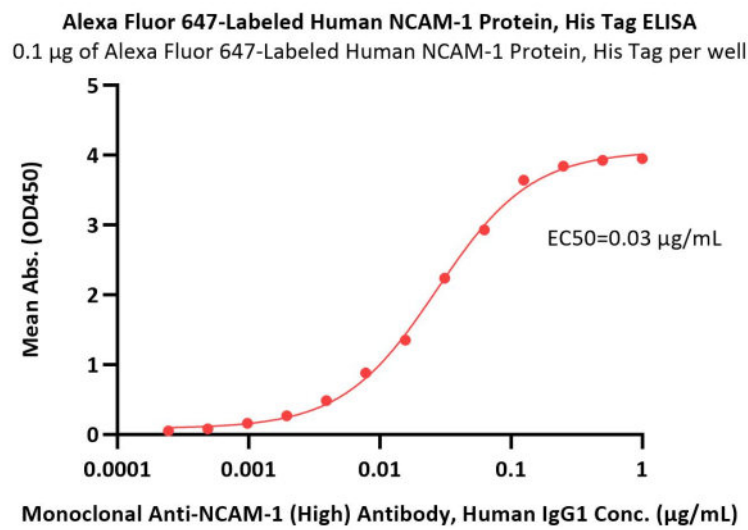
Alexa Fluor 647-Labeled Human NCAM-1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-HPLC



The purity of Alexa Fluor 647-Labeled Human NCAM-1 Protein, His Tag (Cat. No. NC1-HA2H4) was greater than 90% as determined by SEC-HPLC.

Bioactivity-ELISA



Immobilized Alexa Fluor 647-Labeled Human NCAM-1 Protein, His Tag (Cat. No. NC1-HA2H4) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-NCAM-1 (High) Antibody, Human IgG1 with a linear range of 0.002-0.125 µg/mL (QC tested).

Background

NCAM1 belongs to the immunoglobulin superfamily of adhesion molecules. A wide range of alternatively spliced NCAM1 messenger RNAs (mRNAs) has been described to date, but only the 120-, 140-, and 180- kDa isoforms are commonly expressed. NCAM1 plays an important role in the regulation of neurogenesis, neurite outgrowth, proliferation, and cell migration, however, its function in hematopoiesis, including NK cells, is poorly understood. NCAM1 signaling is mediated either by homophilic or heterophilic interactions with fibroblast growth factor receptor (FGFR), L1-CAM, N-cadherin and other components of the extracellular matrix. Upon activation, NCAM1 triggers a variety of signaling cascades including FYN-focal adhesion kinase (FAK), MAPK, and phosphatidylinositol 3-kinase (PI3K) pathways.

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