

NCAM1 Protein, Human, Recombinant (aa 20-718, His)

General Information

Synonyms:	MSK39;CD56;NCAM1;N-CAM-1;NCAM-1;NCAM
Protein Construction:	Leu20-Gly718
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P13591-2
Molecular Weight:	78.48 kDa (predicted). Due to glycosylation, the protein migrates to 95-115 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human NCAM-1, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Anti-NCAM-1 Antibody, hFc Tag with the EC50 of 5.1 ng/mL determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Neural Cell Adhesion Molecule 1 (NCAM-1), a multifunctional member of the immunoglobulin superfamily, is expressed on the surface of neurons, glia, skeletal muscle, and natural killer cells. NCAM-1 has been implicated as having a role in cell-cell adhesion, involved in development of the nervous system, and for cells involved in the expansion of T cells and dendritic cells which play an important role in immune surveillance.

Reference

Guven A, et al. Development and validation of an immunoassay for quantification of NCAM-1 in human plasma. J Pharm Biomed Anal. 2021 Apr 15;197:11398doi: 10.1016/j.jpba.2021.11398Epub 2021 Feb 16. PMID: 33657526.

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