

Recombinant Human NCR3/NKp30/CD337 Protein

Catalog No.: RP00179 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	259197	O14931

Tags

C-hFc&His

Synonyms

NCR3;1C7;CD337;LY117;MALS;NKp30

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Natural Cytotoxicity Triggering Receptor 3, NCR3, also known as NKp30, or CD337, is a natural cytotoxicity receptor. NKp30 is expressed on both resting and activated NK cells of the CD56dim, CD16+ subset that account for more than 85% of NK cells found in peripheral blood and spleen. NKp30 is absent from the CD56bright, CD16- subset that constitutes the majority of NK cells in lymph node and tonsil, however, its expression is up-regulated in these cells upon IL-2 activation. NKp30 is a member of the immunoglobulin superfamily and one of three existing natural cytotoxicity-triggering receptors. NKp30 is a glycosylated protein and is thought to be selectively expressed in resting and activated natural killer cells. NKp30 is a stimulatory receptor on human NK cells implicated in tumor immunity, and is capable of promoting or terminating dendritic cell maturation. NCR3 may play a role in inflammatory and infectious diseases.

Basic Information

Description

Recombinant Human NCR3/NKp30/CD337 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu19-Thr138) of human NCR3/NKp300 (Accession #NP_001138938.1) fused with an Fc, 6xHis tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant Human B7-H6 at 2 μg/mL (100 μL/well) can bind recombinant Human NCR3, the EC₅₀ of Human NCR3 is 66.43 ng/mL.

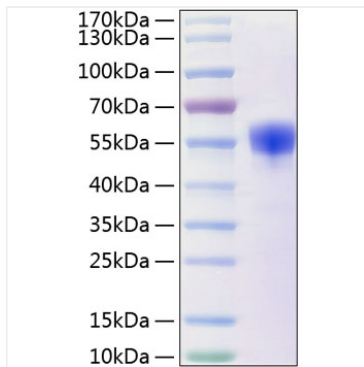
Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

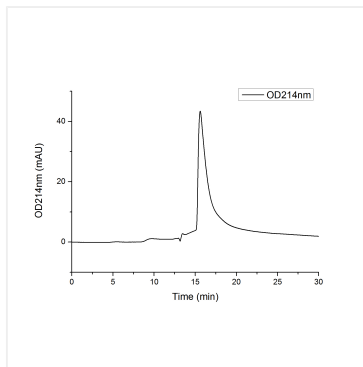
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

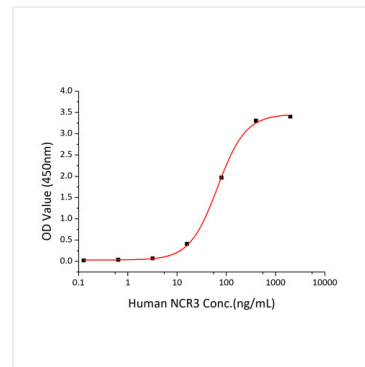
Validation Data



Recombinant Human NCR3/NKp30/CD337 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 54-60 kDa..



The purity of Human NCR3/NKp300 Protein (Cat.RP00179) was greater than 95% as determined by SEC-HPLC.



Immobilized recombinant Human B7-H6 at 2 μ g/mL (100 μ L/well) can bind recombinant Human NCR3, the EC₅₀ of Human NCR3 is 66.43 ng/mL.