Human NCR3 / NKp300 Protein (His & Fc Tag)

Catalog Number: **10480-H03H**

Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

1C7; CD337; DAAP-90L16.3; LY117; MALS; NCR3; NKp30

Protein Construction:

A DNA sequence encoding the extracellular domain (Met 1-Gly 135) of human NCR3 (NP_667341.1) precursor was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 97 % as determined by SDS-PAGE

Bio Activity:

1.Measured by its binding ability in a functional ELISA. 2.Immobilized human B7-H6 -His(Cat:16140-H08H) at 10μg/mL (100μL/well) can bind human NCR3-Fch(Cat:10480-H03H), the EC_{50} of human NCR3-Fch is 6-200ng/mL.

Endotoxin:

< 1.0 EU per μg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 ℃

Predicted N terminal: Leu 19

Molecular Mass:

The recombinant human NCR3/Fc is a disulfide-linked homodimer after removal of the signal peptide. The reduced monomer consists of 365 amino acids and has a predicted molecular mass of 41 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh NCR3/Fc monomer is approximately 50-55 kDa due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

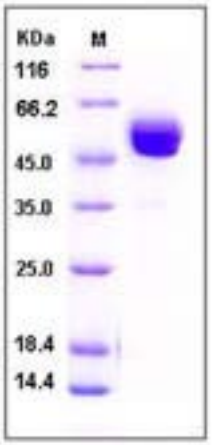
Store it under sterile conditions at -20℃ to -80℃ upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Natural Cytotoxicity Triggering Receptor 3, NCR3, also known as NKp30, or CD337, is a natural cytotoxicity receptor, expressed on subsets of human peripheral blood NK cells, involved in NK cell killing of tumor cells and immature dendritic cells. The cellular ligand for NKp30 has remained elusive, but the membrane-associated heparan sulfate (HS) proteoglycans are involved in the recognition of cellular targets by NKp30 was recently reported. 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.

References

1.Warren HS, *et al.* (2005) Evidence that the cellular ligand for the human NK cell activation receptor NKp30 is not a heparan sulfate glycosaminoglycan. J Immunol. 175(1): 207-12. 2.Mulcahy H, *et al.* (2006) LST1 and NCR3 expression in autoimmune inflammation and in response to IFN-gamma, LPS and microbial infection. Immunogenetics. 57(12): 893-903. 3.Hsieh CL, *et al.* (2006) NKp30 is a functional activation receptor on a subset of rat natural killer cells. Eur J Immunol. 36(8): 2170-80.