

RP01356

Leader in Biomolecular Solutions for Life Science



Recombinant Human B7-H6/NCR3LG1 Protein

Catalog No.: RP01356

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	374383	Q68D85

Tags

C-His

Synonyms

B7-H6;NCR3LG1;B7 Homolog
6;NCR3LG1

Product Information

Source

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.

Purification

≥ 90 % as determined by SDS-PAGE.

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of

Background

Natural cytotoxicity triggering receptor 3 ligand 1 (B7-H6) is a glycosylated member of the B7 family of immune costimulatory proteins. Mature human B7-H6 consists of a 238 amino acid (aa) extracellular domain (ECD) that contains one Ig-like V domain and one Ig-like C1 domain, a 21 aa transmembrane segment, and a 171 aa cytoplasmic domain that contains one ITIM, one SH2, and one SH3 motif. Both of the Ig-like domains carry N-linked glycosylation. The Ig-like V domain mediates 1:1 stoichiometric binding of B7-H6 to Nkp30 expressed on NK cells. It does not show binding to Nkp44, Nkp46, or NKG2D. Ligation of Nkp30 by B7-H6 induces NK cell activation and target cell cytolysis. B7-H6 is expressed on a wide range of hematopoietic, carcinoma, and melanoma tumor cells, which is consistent with the detection of Nkp30 binding sites on many tumors.

Basic Information

Description

Recombinant Human B7-H6/NCR3LG1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp25-Ser262) of human B7-H6/NCR3LG1 (Accession #NP_001189368.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human NCR3LG1 (Catalog: RP01356) at 2 μg/mL (100 μL/well) can bind Mouse NCR3 (Catalog: RP00179) with a linear range of 0.03-46 ng/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

Store at -20°C
Avoid repeated freeze/thaw cycles.

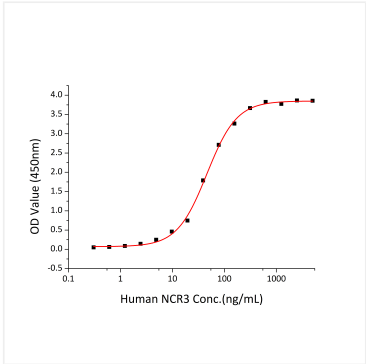
0.1-0.5 mg/mL in sterile distilled water.
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Contact

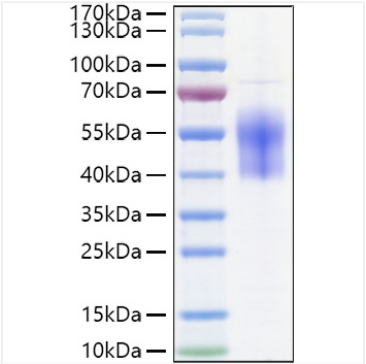


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Validation Data



Immobilized Human NCR3LG1 (Catalog: RP01356) at 2 µg/mL (100 µL/well) can bind Mouse NCR3 (Catalog: RP00179) with a linear range of 0.03-46 ng/mL.



Recombinant Human B7-H6/NCR3LG1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.