

Recombinant Human B7-H6/NCR3LG1 Protein

Catalog No.: RP01356 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	374383	Q68D85

Tags

C-His

Synonyms

B7-H6;NCR3LG1;B7 Homolog 6;NCR3LG1

Product Information

Source	Purification
HEK293 cells	> 90% by SDS-PAGE.

Calculated MW	Observed MW
27.51 kDa	40-60 kDa

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 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.

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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 cytotoxicity. 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 6xHis 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.

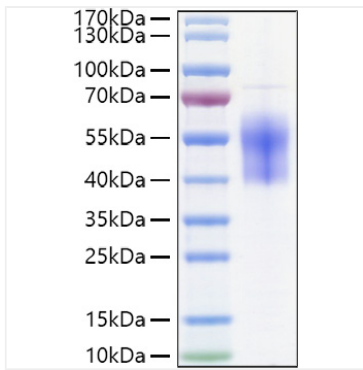
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

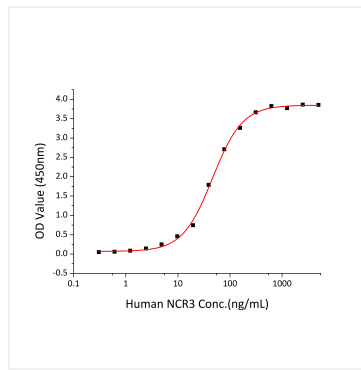
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human B7-H6/NCR3LG1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 38-48kDa.



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