

Recombinant Cynomolgus NCR3 protein, His-tagged

Cat. No. NCR3-499C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Cynomolgus NCR3 (Asp25-Asp259) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).
Species	Cynomolgus
Source	HEK293
ProteinLength	Asp25-Asp259
Description	<p>The B7 family of genes is essential in the regulation of the adaptive immune system. one of which is the recently discovered B7H6. Humans and rats have a single B7H6 gene; however, many B7H6 genes were detected in a single large cluster in the Xenopus genome.</p> <p>Chimeric antigen receptor (CAR) T-cell therapies have demonstrated durable and potentially curative therapeutic efficacy against B-cell leukemia in clinical trials. In this study, B7H6, a ligand for the NK cell activating receptor NKp30, was targeted to create a CAR that targets multiple tumor types. B7H6 is expressed on various primary human tumors, including leukemia, lymphoma and gastrointestinal stromal tumors, but it is not constitutively expressed on normal tissues.</p>
Predicted N Terminal	Asp25
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 28.4 kDa. The protein migrates as 38-50 KDa

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under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin Less than 1.0 EU per µg by the LAL method.

Purity >95% as determined by SDS-PAGE.

Storage

For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20 to -70 centigrade for 12 months in lyophilized state;
- 70 centigrade for 3 months under sterile conditions after reconstitution.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name [NCR3](#)

Official Symbol [NCR3](#)

Synonyms ncr; NKp30; NK-p30

Gene ID [102133932](#)

mRNA Refseq [XM_005553542.2](#)

Protein Refseq [XP_005553599.1](#)

UniProt ID [P61483](#)

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SDS-PAGE of NCR3-499C

Cynomolgus B7-H6 on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity of NCR3-499C

Immobilized Human NKp30, Fc Tag at 5 µg/mL (100 µL/well) can bind Cynomolgus B7-H6 with a linear range of 0.625-5 µg/mL (QC tested).

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