

Recombinant Human NCR3LG1 protein, Avi & His-tagged, Biotinylated

Cat. No. NCR3LG1-1290H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Biotinylated Human B7-H6, His Tag is expressed from human 293 cells (HEK293). It contains AA Asp 25 - Ser 262 (Accession # Q68D85-1). Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.

Species Human

Source HEK293

ProteinLength Asp 25 - Ser 262

Description 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. 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.

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Predicted N Terminal	Asp 25
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.
Molecular Mass	The protein has a calculated MW of 30.4 kDa. The protein migrates as 45-60 kDa 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°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C 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.
Conjugation	Biotin

GENE INFORMATION

Gene Name	NCR3LG1 natural killer cell cytotoxicity receptor 3 ligand 1 [Homo sapiens (human)]
Official Symbol	NCR3LG1
Synonyms	B7H6; B7-H6; DKFZp686O24166; B7 homolog 6; putative Ig-like domain-containing protein DKFZp686O24166/DKFZp686I21167; natural cytotoxicity triggering receptor 3

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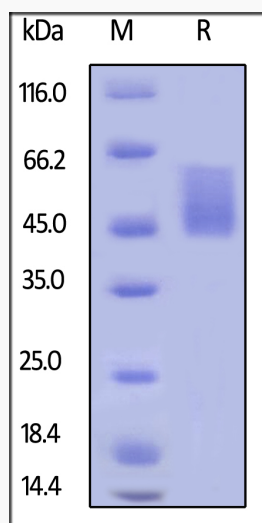
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ligand 1

Gene ID	374383
mRNA Refseq	NM_001202439.2
Protein Refseq	NP_001189368.1
UniProt ID	Q68D85

SDS-PAGE



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

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