

# Recombinant human B7-H6 protein

Catalog Number: ATGP4100

## PRODUCT INFORMATION

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### Expression system

HEK293

### Domain

25-262aa

### UniProt No.

Q68D85

### NCBI Accession No.

NP\_001189368.1

### Alternative Names

Natural cytotoxicity triggering receptor 3 ligand 1, B7 homolog 6, NCR3LG1, B7H6, DKFZp686O24166

## PRODUCT SPECIFICATION

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### Molecular Weight

53.6kDa (477aa)

### Concentration

0.5mg/ml (determined by Absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Measured by its binding ability in a functional ELISA with Human NCR3. The ED50 range  $\leq$ 500 ng/ml.

### Tag

hIgG-His-Tag

### Application

SDS-PAGE, Bioactivity

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

B7-H6, also known as NCR3LG1, is a member of the B7 family of immune co-stimulatory proteins. B7-H6 is as a

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cell-surface ligand for the NKp30-activating receptor expressed on natural killer cells. It is expressed on a wide range of hematopoietic, carcinoma, and melanoma tumor cells, and is consistent with the detection of NKp30 binding sites on many tumors. The expression of NKp30 ligands on tumor cells correlates with tumor cell sensitivity to NKp30-dependent cell lysis. Recombinant human B7-H6, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

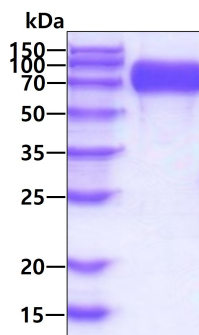
DLKVEMMAGG TQITPLNDNV TIFCNIFYSQ PLNITSMGIT WFWKSLTFDK EVKVFEEFFGD HQEAFRPGAI VSPWRLKSGD ASLRLPGIQL EEAGEYRCEV VVTPLKAQGT VQLEVVASPA SRLLLDQVGM KENEDKYMCE SSGFYPEAIN ITWEKQTQKF PHPIEISEDV ITGPTIKNMD GTFNVTSLK LNSSQEDPGT VYQCVVRHAS LHTPLRSNFT LTAARHSLSE TEKTDNFS<LE PKSCDKTHTC PPCAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTPP VLDSGGSFFL YSKLTVDKSR WQQGNVFCSS VMHEALHNNHY TQKSLSLSPG KHHHHHH>

### General References

- Brandt C.S., et al. (2009) J. Exp. Med. 206:1495-1503.
- Zou, W., et al. (2008) Nat Rev Immunol. 8:467-477.
- Byrd A., et al. (2007) PLoS ONE. 2:e1339.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

### Biological Activity

Human NCR3 is coated at 2 ug/ml (100 ul/well) can bind Human B7-H6. The ED50 range  $\leq 500$  ng/ml.

