

# Recombinant human Siglec-7/CD328 protein

Catalog Number: ATGP3637

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

19-353aa

### UniProt No.

Q9Y286

### NCBI Accession No.

NP\_055200

### Alternative Names

Sialic acid-binding Ig-like lectin 7 isoform 1, SIGLEC7, AIRM1, CD328, CDw328, D-siglec, p75, p75/AIRM1, QA79, SIGLEC-7, SIGLEC19P, SIGLECP2

## PRODUCT SPECIFICATION

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### Molecular Weight

64.2 kDa (577aa)

### Concentration

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

### Formulation

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

### Purity

> 90% by SDS-PAGE

### Endotoxin level

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

### Tag

hIgG-His-Tag

### Application

SDS-PAGE

### 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

SIGLEC7, also known as sialic acid-binding Ig-like lectin 7 isoform 1, is a recently discovered family of sialic acid-binding lectins of the immunoglobulin (Ig) superfamily. The extracellular portion has two Ig-like domains, with the amino-terminal V-set Ig domain including amino acid residues known to be involved in sialic acid recognition

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by other Siglecs. The combination of an extracellular sialic acid binding site and an intracellular ITIM motif suggests that this molecule is involved in trans-membrane regulatory signaling reactions. It exists as a monomer on the cell surface and is expressed on natural killer cells. Recombinant human SIGLEC7, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

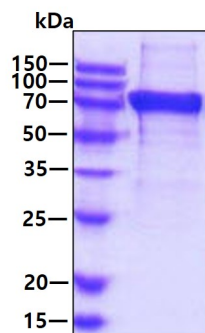
<ADP>QKSNRKD YSLTMQSSVT VQEGMCVHVR CSFSYPVDSQ TSDPVGHWY FRAGNDISWK APVATNNPAW  
AVQEETRDRF HLLGDPQTKN CTLSIRDARM SDAGRYFFRM EKGNIKWNYK YDQLSVNVTA LTHRPNILIP GTLESGCFQN  
LTCSVPWACE QGTPPMISWM GTSVSPLHPS TTRSSVLTLL PQQHHTGSL TCQVTLPGAG VTTNRTIQLN VSYPQNLTV  
TVFQEGGTAS TALGNSSSLV VLEGQSLRLV CAVDSNPPAR LSWTWRSLTL YPSQSNPLV LELQVHLGDE GEFTCRAQNS  
LGSQHVSLNL SLQQEYTGKM RPVSGVLL<LE PKSCDKTHTC PPCAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV  
SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP  
QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTTP VLDSGDSFFL YSKLTVDKSR WQQGNVFSCS  
VMHEALHNHY TQKLSLSLSPG KHHHHHH>

## General References

Crocker., et al. (2001) Trends Immunol. 22:337-342.  
Nicoll G., et al. (1999) J. Biol. Chem. 274:34089-34095.

## DATA

### SDS-PAGE



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