Recombinant human Siglec-7/CD328 protein

Catalog Number: ATGP3637

PRODUCT INFORMATION

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

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

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 hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

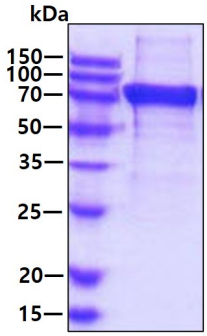
<ADP>QKSNRKD YSLTMQSSVT VQEGMCVHVR CSFSYPVDSQ TDSDPVHGYW FRAGNDISWK APVATNNPAW AVQEETRDRF HLLGDPQTKN CTLSIRDARM SDAGRYFFRM EKGNIKWNYK YDQLSVNVTA LTHRPNILIP GTLESGCFQN LTCSVPWACE QGTPPMISWM GTSVSPLHPS TTRSSVLTLI PQPQHHGTSL TCQVTLPGAG VTTNRTIQLN VSYPPQNLTV TVFQGEGTAS TALGNSSSLS VLEGQSLRLV CAVDSNPPAR LSWTWRSLTL YPSQPSNPLV LELQVHLGDE GEFTCRAQNS LGSQHVSLNL SLQQEYTGKM RPVSGVLL<LE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTPP VLDSDGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG 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.