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**Product Data Sheet**


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Product Name: SIGLEC7 Human  
 Cat. No.: GP24583  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms Sialic Acid Binding Ig Like Lectin 7; QA79 Membrane Protein; SIGLEC-7; D-Siglec; AIRM-1;CDw328; AIRM1; P75; Sialic Acid Binding Ig-Like Lectin 19; Pseudogene; Adhesion Inhibitory Receptor Molecule 1; Siglec-7; Sialic Acid Binding Ig-Like Lectin; Pseudogene 2; Sialic Acid Binding Immunoglobulin-Like Lectin 7; Adhesion Inhibitory Receptor Molecule 1; Sialic Acid Binding Ig-Like Lectin 7; Sialic Acid-Binding Ig-Like Lectin 7; CD328 Antigen; SIGLEC19P; P75/AIRM1; SIGLECP2; CD328; QA79.

Amino Acid Sequence  
 ADPQKSNRKD YSLTMQSSVT VQEGMCMVHVR CSFSYPVDSQ TSDPVMHGYW  
 FRAGNDISWK APVATNNPAW AVQEETDRDF HLLGDPQTKN CTLSIRDARM  
 SDAGRYFFRM EKGNIKWNYK YDQLSVNVTA LTHRPNILIP GTLESGCFQN  
 LTCSVPWACE QGTTPMISWM GTSVSPLHPSTTRSSVLTLLI PQPQHHGTSL  
 TCQVTLPGAG VTTNRTIQLN VSYPPQNLTV TVFQGEGETAS TALGNSSSLS  
 VLEGQSLRLV CAVDSNPPAR LSWTWRSLTL YPSQPSNPLV LELQVHLGDE  
 GEFTCRAQNS LGSQHVSLNL SLQQEYTGKM RPSGVLLLE PKSCDKTHTC  
 PPCPAPELLGGPSVFLFPPK PKDTLMISRT PEVTCVVVDV SHEDPEVKFN  
 WYVDGVEVHN AKTKPREEQY NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK  
 ALPAPIEKTI SKAKGQPREP QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD  
 IAVEWESNGQ PENNYKTTTP VLDSDGSFFL YSKLTVDKSRWQQGNVFCSS  
 VMHEALHNHY TQKLSLSLSPG KHHHHHHH.

Formulation SIGLEC7 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

**Introduction**

Sialic acid-binding Ig-like lectin 7 isoform 1, also known as SIGLEC7, is a newly discovered family of sialic acid-binding lectins of the immunoglobulin (Ig) superfamily.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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The extracellular portion has two Ig-like domains, with the amino-terminal V-set Ig domain containing amino acid residues which known to be implicated in sialic acid recognition by other Siglecs. The combination of an extracellular sialic acid binding site and an intracellular ITIM motif proposes that SIGLEC7 is involved in trans-membrane regulatory signaling reactions. Furthermore, on the cell surface SIGLEC7 exists as a monomer and is expressed on natural killer cells.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SIGLEC7 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 577 amino acids (19-353a.a.) and having a molecular mass of 64.2kDa (Molecular size on SDS-PAGE will appear at approximately 70-100kDa). SIGLEC7 is expressed with a 239 amino acid hlgG-His-tag at C-Terminus and purified by proprietary chromatographic techniques.

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