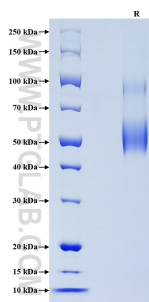


# Recombinant Human Siglec-7/CD328 protein (His Tag)

Catalog Number: Eg1545

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: His Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human Siglec-7 protein Gln19-Leu353 (Accession# Q9Y286-1) with a His tag at the C-terminus.</p> <p><b>GeneID:</b> 27036</p> <p><b>Accession:</b> Q9Y286-1</p> <p><b>Predicted Molecular Mass:</b> 38.0 kDa</p> <p><b>SDS-PAGE:</b> 45-65 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> <li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li> <li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li> </ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Sialic acid binding Ig-like lectin 7 (Siglec-7), also known as CD328 or p75/AIRM-1, is a member of the Siglec family of glycan-recognition proteins. Siglec-7 is a type-I transmembrane protein consisting of three extracellular immunoglobulin-like domains that comprise an N-terminal V-set domain and two C2-set domains, a transmembrane region and a cytoplasmic tail containing two tyrosine residues embodied in immunoreceptor tyrosine-based inhibition motif-like motifs. It is mainly expressed on immune cells, with low levels on granulocytes, intermediate levels on monocytes, and relatively high levels on a major subset of natural killer cells and a minor subset of CD8+ T cells. Siglec-7 is an inhibitory receptor that negatively regulates the function of NK cells and modulates the immune response through the interaction of sialic acid-containing ligands.</p>		
References	<ol style="list-style-type: none"> <li>1. Zheng, Yayun et al. Journal of immunology research vol. 2020 6243819.</li> <li>2. Nicoll, G et al. The Journal of biological chemistry vol. 274,48 (1999): 34089-95.</li> <li>3. Shao, J-Y et al. Scandinavian journal of immunology vol. 84,3 (2016): 182-90.</li> </ol>		
Synonyms	SIGLEC7, Siglec-7, AIRM 1, AIRM1, AIRM-1		

## Selected Validation Data



Purity of Recombinant Human Siglec-7 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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