

For Research Use Only

Recombinant Human Siglec-7/CD328 protein (rFc Tag)



Catalog Number: Eg1367

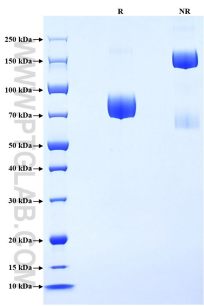
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Human Siglec-7 protein Gln19-Leu353 (Accession# Q9Y286-1) with a rabbit IgG Fc tag at the C-terminus. GeneID: 27036 Accession: Q9Y286-1 Predicted Molecular Mass: 63.2 kDa SDS-PAGE: 70-90 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	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.		
References	1. Zheng Y. et al. (2020). J Immunol Res. 2020:6243819. 2. Nicoll G. et al. (1999). J Biol Chem. 274(48):34089-95. 3. Shao JY. et al. (2016). Scand J Immunol. 84(3):182-90.		
Synonyms	SIGLEC7, Siglec-7, AIRM 1, AIRM1, AIRM-1		

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

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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) and non-reducing (NR) conditions and stained using Coomassie blue.