

Active Recombinant Rat Siglec15 Protein, His-tagged

Cat. No. Siglec15-11148R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat Siglec-15 Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Arg 24 - Pro 257 (Accession # D3ZL05). This protein carries a polyhistidine tag at the C-terminus. The protein is designed as a dimer. Predicted N-terminus: Arg 24
Species	Rat
Source	HEK293
ProteinLength	24-257 aa
Description	Siglec-15 is a transmembrane glycoprotein belonging to the Siglec family, recognized for its sialic acid-binding properties and role in immune regulation. Structurally, its extracellular domain contains two Ig-like domains, and it functionally associates with the signaling adaptors DAP12 and DAP10. Siglec-15 is expressed on immune cells, including osteoclasts, macrophages, and dendritic cells. It exerts its function by binding to its ligand, the sialyl-Tn antigen. This interaction is critical for inducing TGF-beta production by tumor-associated macrophages and plays an essential role in osteoclast formation and TRANCE/RANK Ligand signaling.
Form	Lyophilized from 0.22 µm filtered solution in PBS, 0.5 M Arginine, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Rat Siglec-15 Protein, His Tag at 1 µg/mL (100 µL/well) can bind Mouse Human chimeric mAb (5G12, Human IgG1) with a linear range of 0.06-2 ng/mL.

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Molecular Mass	The protein has a calculated MW of 27.4 kDa. The protein migrates as 32-37 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Siglec15 sialic acid binding Ig-like lectin 15 [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Siglec15
Synonyms	Siglec15; sialic acid binding Ig-like lectin 15; RGD1565948;
Gene ID	498888
mRNA Refseq	NM_001191942
Protein Refseq	NP_001178871

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UniProt ID

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