Active Recombinant Human SIGLEC15 protein, Fc-tagged

Cat. No. SIGLEC15-256H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SIGLEC15(Phe20-Thr263) fused Fc region of Human IgG1 at C-terminal was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	20-263 a.a.
Description	Siglec-15 is a transmembrane glycoprotein in the Siglec family of sialic acid-binding immune regulatory molecules. Mature human Siglec-15 consists of a 244 amino acid (aa) extracellular domain (ECD) with two Ig-like domains, a 21 aa transmembrane segment, and a 44 aa cytoplasmic domain. Within the ECD, human Siglec-15 shares 85% aa sequence identity with mouse and rat Siglec-15. Alternative splicing generates an additional isoform that lacks the signal peptide and first Ig-like domain. Siglec-15 associates with the signaling molecules DAP12 and DAP10. It is expressed on osteoclasts, macrophages, and dendritic cells and binds to the sialyl-Tn antigen. This interaction induces the production of TGF-beta by tumor-associated macrophages. Siglec-15 function is important for osteoclast formation and TRANCE/RANK Ligand signaling in osteoclasts.
Predicted N Terminal	Phe20
Form	Lyophilized from a 0.2 μm filtered solution in PBS, NaCl, CHAPS and Trehalose.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Bio-activity	Measured by its binding ability in a functional ELISA. When Neu5Ac(a2-6)GalNAc-PAA-biotin is immobilized onto a Streptavidin-coated plate, Recombinant Human Siglec-15 Fc Chimera binds with an ED50 of 150-900 ng/mL.
Molecular Mass	Predicted Molecular Mass: 53 kDa SDS-PAGE: 53-64 kDa, reducing conditions
Endotoxin	<0.1 EU per 1 μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 200 μg/mL in water.

GENE INFORMATION

Gene Name	SIGLEC15 sialic acid binding Ig like lectin 15 [Homo sapiens]
Official Symbol	SIGLEC15
Synonyms	CD33L3; HsT1361; SIGLEC-15; CD33 antigen-like 3; CD33 molecule-like 3
Gene ID	284266
mRNA Refseq	NM_213602

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Protein Refseq	NP_998767
UniProt ID	Q6ZMC9

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