

Active Recombinant Human SIGLEC15 protein, Fc-tagged

Cat. No. SIGLEC15-15H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human SIGLEC15(Phe20-Thr263) fused with Fc of Human IgG1 tag at C-terminal was expressed in CHO.
Species	Human
Source	CHO
ProteinLength	Phe20-Thr263
Description	<p>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.</p>
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	<0.10 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.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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

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mRNA Refseq	NM_213602
Protein Refseq	NP_998767
UniProt ID	Q6ZMC9
Chromosome Location	18q12.3
Pathway	DAP12 interactions, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem

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