

Siglec-10 Active Protein | SIGLEC10 active protein

Recombinant Human Siglec-10 (C-mFc)

CATALOG #
AAA177946

HOST
Human Cells

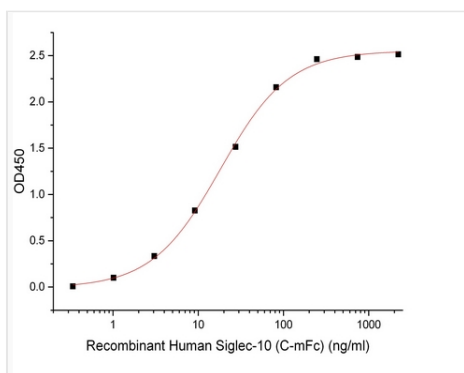
PRODUCT SYNONYMS

Siglec-10; Recombinant Human Siglec-10 (C-mFc); SIGLEC10; MGC126774; PRO940; Siglec10; SLG2; sialic acid-binding Ig-like lectin 10; siglec-like gene 2; Siglec-like protein 2; SLG2sialic acid binding Ig-like lectin 10 Ig-like lectin 7; SIGLEC10 active protein

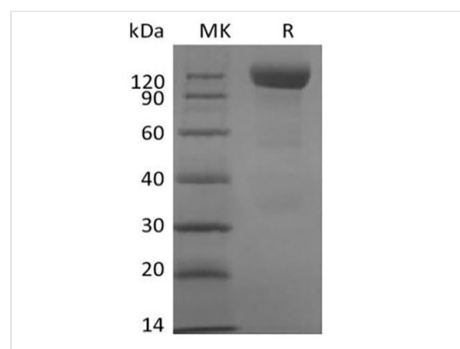
PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>90% as determined by reducing SDS-PAGE
Form/Format	Lyophilized from a 0.2um filtered solution of PBS, pH7.4.
Sequence	Met17-Thr5 46
Species	Human
Tag	C-mFc
Endotoxin	<1.0EU per ug as determined by the LAL method.
Protein Construction	Recombinant Human Sialic Acid-binding Ig-like Lectin 10 is produced by our Mammalian expression system and the target gene encoding Met17-Thr546 is expressed with a mFc tag at the C-terminus.
Activity	Immobilized Anti-Human Siglec10 mAb at 2ug/ml (100ul/well) can bind Human Siglec-10-mFc . The ED50 of Human Siglec-10-mFc is 18.16ng/ml.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months. This product is provided as lyophilized powder which is shipped with ice packs.

IMAGES



Bioactivity



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SIGLEC10 active protein	Siglecs (sialic acid binding Ig-like lectins) are I-type lectins that belong to the immunoglobulin superfamily. They are characterized by an N-terminal Ig-like V-type domain which mediates sialic acid binding, followed by a varying number of Ig-like C2-type domains. Siglecs 5-11 constitute the CD33/Siglec-3 related group, and are differentially expressed in the hematopoietic system. Siglec-G is the apparent ortholog of human Siglec-10. We describe here a novel member of the siglec protein family that shares a similar structure including five Ig-like domains, a transmembrane domain, and a cytoplasmic tail containing two ITIM-signaling motifs. Siglec-10 was identified through database mining of an asthmatic eosinophil EST library. Siglec-10 binds sialated proteins and lipids in alpha 2,3 or alpha 2,6 linkage and shows a preference for GT1b gangliosides. This binding can be modulated by cis interactions of Siglec-10 with sialated molecules expressed on the same cell. When tyrosine phosphorylated, the cytoplasmic ITIMs interact with phosphatases SHP-1 and SHP-2 to propagate inhibitory signals. The Siglec-10-VAP-1 interaction seems to mediate lymphocyte adhesion to endothelium and has the potential to modify the inflammatory microenvironment via the enzymatic end products.
Product Categories/Family for SIGLEC10 active protein	Tags & Cell Markers

NCBI AND UNIPROT INFORMATION

NCBI GI #	283837876
NCBI GeneID	89790
NCBI Accession #	NP_001164627.1
NCBI GenBank Nucleotide #	NP_001164627.1
UniProt Accession #	Q96LC7
NCBI Official Full Name	sialic acid-binding Ig-like lectin 10 isoform 2
NCBI Official Synonym Full Names	sialic acid binding Ig like lectin 10
NCBI Official Symbol	SIGLEC10
NCBI Official Synonym Symbols	SLG2; PRO940; SIGLEC-10
NCBI Protein Information	sialic acid-binding Ig-like lectin 10
UniProt Protein Name	Sialic acid-binding Ig-like lectin 10
UniProt Gene Name	SIGLEC10
UniProt Synonym Gene Names	SLG2; Siglec-10
UniProt Entry Name	SIG10_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.