

Recombinant Mouse Siglece protein, Fc-tagged

Cat. No. Siglece-057M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Sialic Acid Binding Ig-like Lectin E is produced by our Mammalian expression system and the target gene encoding Gln20-Phe355 is expressed with a Fc tag at the C-terminus.
Species	Mouse
Source	HEK293
ProteinLength	Gln20-Phe355
Description	Siglecs are sialic acid specific I-type lectins that are characterized by an extracellular domain (ECD) with an N-terminal Ig-like V-set domain followed by varying numbers of Ig-like C2-set domains. Mouse Siglec-E, also known as Myeloid Inhibitory Siglec (MIS), is an 80 - 85 kDa member of the CD33-related subfamily of Siglecs. Rodent and primate Siglec gene families have significantly diverged, and Siglec-9 is the most likely human ortholog of mouse Siglec-E. Siglec-E is expressed as a heavily N-glycosylated disulfide-linked homodimer and shows binding preference for disialic acids in the alpha 2-8 linkage. Siglec-E is up-regulated and additionally phosphorylated following cellular stimulation by a variety of TLR agonists. Siglec-E signaling negatively regulates the LPS-induced production of TNF- alpha and IL-6 by macrophages. Its up-regulation in macrophages parallels the development of endotoxin tolerance. Siglec-E recognition of sialylated determinants on virulent T. cruzi contributes to the suppression of dendritic cell IL-12 p40 production.

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Form	Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.5.
Molecular Mass	85-95kDa, reducing conditions.
Endotoxin	Less than 0.1 ng/g (1 EU/g) as determined by LAL test.
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

GENE INFORMATION

Gene Name	Siglece sialic acid binding Ig-like lectin E [Mus musculus (house mouse)]
Official Symbol	Siglece
Synonyms	SiglecE; Siglec-E; Sialic Acid Binding Ig-like Lectin E
Gene ID	83382

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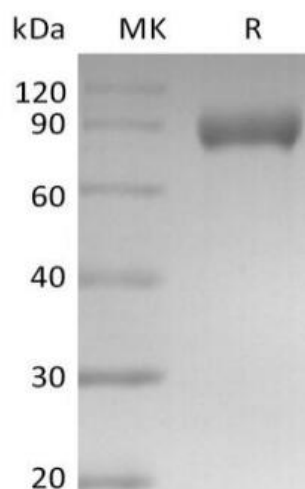
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mRNA Refseq [NM_031181.2](#)

Protein Refseq [NP_112458.2](#)

UniProt ID [Q91Y57](#)

SDS-PAGE of
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