# Siglec-E Protein, Mouse (HEK293, Fc)

| | |
|---|---|
| **Cat. No.:** | HY-P71314 |
| **Synonyms:** | SiglecE; Siglec-E; Sialic Acid Binding Ig-like Lectin E |
| **Species:** | Mouse |
| **Source:** | HEK293 |
| **Accession:** | Q6PJ50 (Q20-F355) |
| **Gene ID:** | 83382 |
| **Molecular Weight:** | Approximately 95 kDa |

## PROPERTIES

| | |
|---|---|
| **AA Sequence** | Q N P Q E G F T L N V E R K V V V Q E G L C V L V P C N F S Y L K K R L T D W T<br>D S D P V H G F W Y R E G T D R R K D S I V A T N N P I R K A V K E T R N R F F<br>L L G E P W R N D C S L N I R E I R K K D A G L Y F F R L E R G K T K Y N Y M W<br>D K M T L V V T A L T N T P Q I L L P E T L E A G H P S N L T C S V P W D C G W<br>T A P P I F S W T G T S V S F L S T N T T G S S V L T I T P Q P Q D H G T N L T<br>C Q V T L P G T D V S T R M T I R L N V S Y A P K N L T V T I Y Q G A D S V S T<br>I L K N G S S L P I S E G Q S L R L I C S T D S Y P P A N L S W S W D N L T L C<br>P S K L S K P G L L E L F P V H L K H G G V Y T C Q A Q H A L G S Q H I S L S L<br>S P Q S S A T L S E M M M G T F |
| **Appearance** | Lyophilized powder. |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.5. |
| **Endotoxin Level** | <1 EU/μg, determined by LAL method. |
| **Reconsititution** | It is not recommended to reconstitute to a concentration less than 100 μg/mL in $ddH_2O$. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| **Storage & Stability** | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| **Shipping** | Room temperature in continental US;may vary elsewhere. |

## DESCRIPTION

| | |
|---|---|
| **Background** | Sialic acid binding Ig-like lectin E (Siglec-E) is a mouse orthologue of human Siglec-9 and functions as a key immunosuppressive checkpoint molecule. Siglec-E is a sialic acid binding lectin predominantly expressed on the surface of myeloid cells to transduce inhibitory signal via recruitment of SH2-domain containing protein tyrosine phosphatase SHP- |

1/2 upon binding to its sialoglycan ligands. Siglec-E interacts with CD36 to inhibits downstream VAV signaling involved in modified LDL uptake, thereby delaying atherosclerosis. The endogenous inducible Siglec-E plays crucial anti-inflammatory and neuroprotective roles following ischemic stroke, and thus might underlie an intrinsic mechanism of resolution of inflammation and self-repair in the brain. Siglec-E is an important negative regulator of neutrophil recruitment to the lung and β2 integrin-dependent signaling and suppresses CD11b β2-integrin-dependent signaling[1][2][3].

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA