

## Product datasheet for **TP726743**

### Mouse Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Mouse Siglec-E (C-Fc)
Species:	Mouse
Expression cDNA Clone or AA Sequence:	Gln20-Phe355
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM Tris-HCl,150mM NaCl,pH 8.5.
Note:	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.
Stability:	12 months from date of despatch
Summary:	<p>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.</p>



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