

Recombinant Mouse Siglec-E (C-Fc)

Catalog Number:PKSM041446



Note: Centrifuge before opening to ensure complete recovery of vial contents.

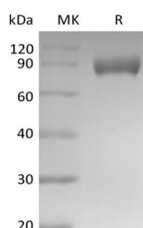
Description

Synonyms	SiglecE;Siglec-E;Sialic Acid Binding Ig-like Lectin E
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Gln20-Phe355
Accession	Q6PJ50
Calculated Molecular Weight	64.4 kDa
Observed molecular weight	85-95 kDa
Tag	C-Fc

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.5. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the print
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Siglecs are sialic acid specific I γ type lectins that are characterized by an extracellular domain (ECD) with an N γ terminal Ig γ like V γ set domain followed by varying numbers of Ig γ like C γ set domains. Mouse Siglec γ E, also known as Myeloid Inhibitory Siglec (MIS), is an 80 - 85 kDa member of the CD33 γ related subfamily of Siglecs. Rodent and primate Siglec gene families have significantly diverged, and Siglec γ 9 is the most likely human ortholog of mouse Siglec γ E. Siglec γ E is expressed as a heavily N γ glycosylated disulfide γ linked homodimer and shows binding preference for disialic acids in the α 2 γ 8 linkage. Siglec γ E is up γ regulated and additionally phosphorylated following cellular stimulation by a variety of TLR agonists. Siglec γ E signaling negatively regulates the LPS γ induced production of TNF γ α and IL γ 6 by

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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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