

Recombinant Cynomolgus TIGIT/VSIG9/VSTM3 Protein (Fc Tag)

Catalog No. PKSQ050021

Description

Synonyms	T-cell immunoreceptor with Ig and ITIM domains; VSIG9; VSTM3; TIGIT; V-set and transmembrane domain-containing protein 3; V-set and immunoglobulin domain-containing protein 9
Species	Cynomolgus
Expression_host	Human Cells
Sequence	Met89-Pro209
Accession	G7NXM4
Mol_Mass	40.6 kDa
AP_Mol_Mass	45-55 kDa
Tag	C-Fc

Properties

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg as determined by the LAL method.
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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS,pH 7.4.
Reconstitution	Please refer to the printed manual for detailed information.

Background

T cell immunoreceptor with Ig and ITIM domains (TIGIT), also called VSIG9 and Vstm3, is a member of the CD28 family within the Ig superfamily of proteins. TIGIT contains an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM), and is expressed on regulatory, memory, activated T cells and NK cells. TIGIT binds to CD155(PVR) that appear on dendritic cells (DC), macrophages and endothelium with high affinity, and CD112(PVRL2) with lower affinity, but not CD113 (PVRL3). TIGIT-Fc fusion protein could interact with PVR on DC and enhance the secretion of IL-10, but inhibit the macrophage activation. Mice lacking TIGIT show increased T cell responses and susceptibility to autoimmune challenges, while knockdown of TIGIT with siRNA in human memory T cells did not affect T cell responses.

SDS-PAGE

