

Recombinant Cynomolgus/Rhesus macaque TIGIT protein, His-tagged (HPLC-verified)

Cat. No. TIGIT-365C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cynomolgus/Rhesus macaque TIGIT protein (Met89-Ile208)(HPLC-verified), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).In the region Met89-Ile 208, the AA sequence of Cynomolgus and Rhesus macaque TIGIT are homologous.
Species	Cynomolgus/Rhesus macaque
Source	HEK293
ProteinLength	120
Description	T-cell immunoreceptor with Ig and ITIM domains (TIGIT) is also known as V-set and immunoglobulin domain-containing protein 9 (VSIG9), V-set and transmembrane domain-containing protein 3 (VSTM3),which belongs to single-pass type I membrane protein containing an immunoglobulin variable domain, a transmembrane domain and an immunoreceptor tyrosine-based inhibitory motif (ITIM). TIGIT is expressed at low levels on peripheral memory and regulatory CD4+ T-cells and NK cells and is up-regulated following activation of these cells (at protein level). TIGIT binds with high affinity to the poliovirus receptor (PVR) which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T-cell activation by promoting the generation of mature immunoregulatory dendritic cells.
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.

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Molecular Mass	The protein has a calculated MW of 15.2 kDa. The protein migrates as 18-30 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per ug by the LAL method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 centigrade to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	TIGIT
Official Symbol	TIGIT
Synonyms	VSIG9, VSTM3, WUCAM
Gene ID	710941
mRNA Refseq	XM_015129816.2
Protein Refseq	XP_014985302.2

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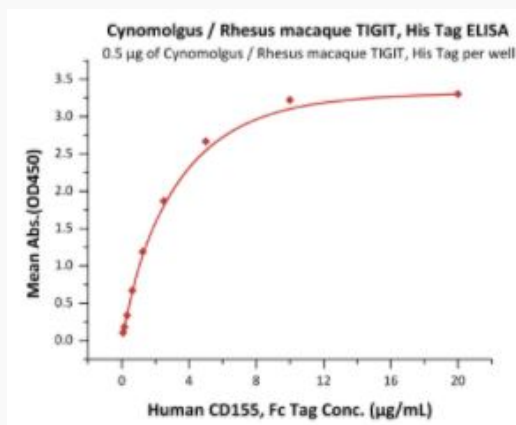
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UniProt ID

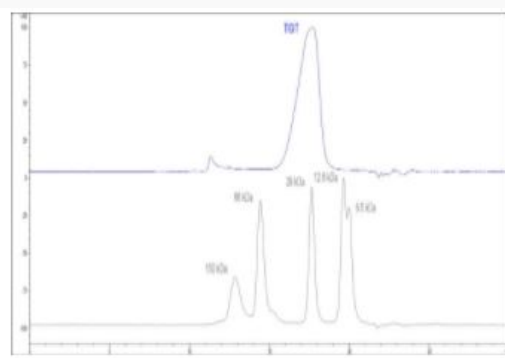
G7NXM4

Bioactivity-ELISA of TIGIT-365C



Immobilized Cynomolgus/Rhesus macaque TIGIT, His Tag (HPLC-verified) at 5 µg/mL (100 µL/well) can bind Human CD155, Fc Tag with a linear range of 0.078-2.5 µg/mL (QC tested).

SEC-HPLC of TIGIT- 365C



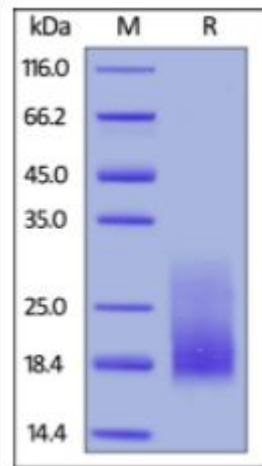
The purity of Cynomolgus/Rhesus macaque TIGIT, His Tag (HPLC-verified) was greater than 90% as determined by SEC-HPLC.

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SDS-PAGE of TIGIT-365C



Cynomolgus/Rhesus macaque TIGIT, His Tag (HPLC-verified) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.