

# Recombinant Human TIGIT

Catalog No: CS92

<b>Description</b>	Recombinant Human T-cell Immunoreceptor With Ig and ITIM Domains is produced by our Mammalian expression system and the target gene encoding Met22-Pro141 is expressed with a Fc tag at the C-terminus.
<b>Source</b>	Baculovirus
<b>Alternative name</b>	T-cell immunoreceptor with Ig and ITIM domains; V-set and immunoglobulin domain-containing protein 9; V-set and transmembrane domain-containing protein 3; Tigit; VSIG9; VSTM3
<b>Accession No.</b>	Q495A1
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
<b>Quality Control</b>	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Storage</b>	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.
<b>Amino Acid Sequence</b>	MMTGTIETTGNISAEKGGSIILQCHLSSTTAQVTQVNWEQQDQLLAICNADLGWHISPSFKDRVAPGPG LGLTLQSLTVNDTGEYFCIYHTYPDGYTGRIFFLEVLESSVAEHGARFQIPIEGRMDPKSCDKTHTCPPC PAPELLGGPSVFLFPPKPKDITLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYN STYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLT CLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFCFSVMHEALH NHYTQKSLSLSPGK
<b>Background</b>	T cell immunoreceptor with Ig and ITIM domains (TIGIT) is a member of the CD28 family within the Ig superfamily of proteins. TIGIT is expressed on NK cells and subsets of activated, memory and regulatory T cells, and particularly on follicular helper T cells within secondary lymphoid organs. It binds to CD155 and Nectin-2 that appear on dendritic cells (DC) and endothelium. Ligation of TIGIT on T cells down-regulates TCR-mediated activation and subsequent proliferation, while NK cell TIGIT ligation blocks NK cell cytotoxicity. Through CD155 and Nectin-2, which also interact with DNAM-1/CD226 and CD96/Tactile, TIGIT is part of an interacting network of Ig superfamily members that may augment or oppose each other. In particular, TIGIT binding to CD155 can antagonize the effects of DNAM1.

## SDS-Page

