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## Human TIGIT-muIg Fusion Protein\*

**CATALOG#:** 556-820 (Preservative-free)

**QUANTITY:** 25 µg

**CONCENTRATION:** 0.5 mg/ml

**Molecular Structure:** A soluble molecule consisting of the extracellular domain of mature human TIGIT fused to murine IgG2a Fc.

Residual signal peptide amino acids (7aa): **kpqapel**

Mature TIGIT(EC) (118aa):

(22)mmgtietgnisaekggsiilqchlssttaqvtnvweqqdqlaiaicnadlgwhispsfkdrvapggltlqslvtndtgeyfcyhtypdgtgriflevlessvaehgarfq(139)

Linking amino acids (2aa): **fq**

Murine IgG2aFc (233aa):

**eprgptlkpcppckcpapnllggpsvfifppkikdvlmislspivtcvvdvseddpdvqiswfvnnvevhtaqtqthredynstlrvsalpiqhqdwmngkefkckvnnkdlpapiertiskpkgsvrapqvy  
vlpppeemtkkqvltfcmvtdfmpediyvewtngktelnykntepvidsdgsyfmysklrveknwvwnsycsvvheglhnhhtkfsrtpgk**

Predicted nonglycosylated monomeric weight: 40 kd. TIGIT-muIg runs as a dimer in SDS-PAGE with a molecular weight of approximately 100 kd.

**Transfectant Cell Line:** CHO

kd type I Ig superfamily molecule (1).1 It is involved in formation of intracellular junctions between epithelial cells. Its ligands include

**INFORMATION:** Human TIGIT (T cell immunoreceptor with Ig and ITIM domains) is a coinhibitory receptor expressed by activated T cells, memory T cells, Treg cells and NK cells. It binds to CD155(PVR) and less avidly to CD112(PVRL2).

**References:** 1) Dougall WC, AC Anderson, et al. (2017) *Immunol Rev* 276(1): 112-120. doi: 10.1111/imr.12518

PMID: 28258695.

**STORAGE CONDITIONS:** Store at 2 - 5°C. Freeze/Thawing is not recommended.

**PRODUCT STABILITY:** Product should retain activity for at least 6 months after shipping date when stored as recommended. Ship Date: \_\_\_\_\_

**BUFFER:** 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl. Product was 0.1 µm filtered and viald under aseptic conditions.

**PRODUCTION:** Human TIGIT-muIg fusion protein was purified from (low FBS containing) tissue culture supernatant of CHO transfectants using Protein A and size exclusion chromatography. Product was 0.2µ sterile filtered and viald under aseptic conditions.

**PERFORMANCE:** Human TIGIT-muIg is reactive in EIA utilizing GAM capture and detection with recombinant CD155-muIg/Biotin(Cat#555-030) and SA/HRP.

TIGIT-muIg was tested for FACS binding to human U-937 cells. Five x 10<sup>5</sup> cells per tube were washed and pre incubated 10 minutes with 300ug/ml human Ig (to reduce nonspecific binding) after which they were incubated 45 minutes on ice with 80 ul of TIGIT-muIg at 10 µg/ml. Cells were then washed twice and incubated with 2<sup>o</sup> detector Goat anti-Mouse/FITC (Catalog #232-011) , after which they were washed three times, fixed and analyzed by FACS using a lymphoid gate. Cells stained positive with a mean shift of 0.57 log<sub>10</sub> fluorescent units when compared to background.

\*Research use only. Not for use in Diagnostic procedures.

### Purified CD279-muIg blocks binding of CD279-muIg/Biotin +SA/PE to human moDC

