

PERFORMANCE DATA SHEET

2618

Human TIGIT-muIg/Biotin Fusion Protein*

For maximal recovery of contents
please quick spin vial before opening

CATALOG#: 556-030

QUANTITY: 25 µg

CONCENTRATION: 0.25 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)mmtgtietgnisaekggsiilqchlssttaqvtnweqqqlaiaenadlgwhispsfkdrvapggplgtlqslvndtgeyfcyhtypdgtgriflevlessvaehgarfq(139)

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

Murine IgG2aFc (233aa):

**epgptikpcppckcpapnllggpsvfifppkikdvlmislspivtcvvvdvseddpdvqiswfvnnevhtaqtqthredynstlrvsalpiqhqdwmmsgkefkckvnmkdlpapiertiskpkgsrapqv
vlppeemtkkqvltcmvtdfmpediyvewtnngkltelnykntepvltdsgsyfmysklrvekknwvernsyscvvhglnhhttkfsrtpgk**

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

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 12 months after shipping date when stored as recommended. Ship Date: _____

BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 5% Glycerol, 0.2% BSA, 0.04% NaN₃ (as a preservative).

PRODUCTION: Human TIGIT-muIg fusion protein from tissue culture supernatant of CHO cell transfectants was Protein A purified to >95% by SDS-PAGE (<1% bovine immunoglobulin), and reacted with NHS-Biotin. Unconjugated Biotin was removed from conjugate using a desalting column.

PERFORMANCE: Five x 10⁵ cultured **U-937** human tumor cells were washed and pre incubated 10 minutes with 20ul of 300ug/ml human IgG (to reduce non specific binding), after which they were incubated 45 minutes on ice with 80 µl of TIGIT-muIg/Biotin at a concentration of **5 µg/ml**. Cells were washed twice and incubated with 2^o reagent Streptavidin/R-Phycoerythrin (Catalog #253-050), after which they were washed twice, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.46 log₁₀** fluorescent units when compared to Recombinant muIgFc/Biotin negative control (Catalog #581-030). Binding was blocked when reagent was pre incubated with a >10 fold excess of recombinant CD155-muIg (Catalog #555-020).

* **Research Use Only. Not for use in Diagnostic procedures.**

Binding of TIGIT-muIg/Biotin +SA/PE to human U-937 cells

