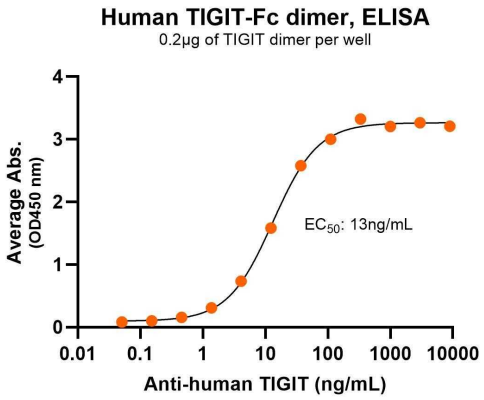
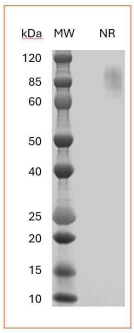
Bioactive, Human TIGIT Dimer, Fc Tag
Product Code: CSP-24028
For Research Use Only (RUO)

Bioactivity – Antibody Binding



Immobilize TIGIT-Fc dimer protein (Cat. No. CSP-24028) at 2 μg/mL (100 μL/well) can bind anti-human TIGIT monoclonal antibody with half maximal effective concentration (EC50) range of 6.27-25.07 ng/mL (QC tested).

SDS-PAGE



MW: Molecular Weight marker reduced condition
NR: TIGIT dimer under non-reducing condition

The migration range of the dimer under non-reducing condition is 85-150 kDa on SDS PAGE.

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Expression Host
HEK293T

Protein Name
Human TIGIT

Purity
Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition

Alternate Name(s)
VSIG9, VSTM3

Protein Construct
TIGIT protein dimer contains a TIGIT extracellular domain (UniProt# Q495A1) with a homodimer Fc tag at the C-terminus. Expressed in HEK293T cell line.

Amino Acid Range
Met22-Phe141

SDS-Page Molecular Weight
104 kDa. The migration range of the dimer under non-reducing condition is 85-150 kDa on SDS PAGE.

Formulation
0.2µm filtered PBS, pH 7.4

Shipping Conditions
Frozen Dry Ice

Stability & Storage
-80^{0}C

Background

Human TIGIT (T-cell immunoreceptor with Ig and ITIM domains) is also known as VSIG9 (V-set and immunoglobulin domain-containing protein 9), VSTM3 (V-set and transmembrane domain-containing protein 3). TIGIT is a type I membrane protein containing an immunoglobulin variable (Ig-V) domain, a transmembrane domain and cytoplasmic domain. TIGIT is an immune receptor present on peripheral memory and regulatory CD4+ T cells and natural killer (NK) cells. TIGIT binds to CD155 (the poliovirus receptor, PVR) with high affinity and binds to CD112 (PVRL2) with lower affinity. Nectin-4 is also a ligand for TIGIT.