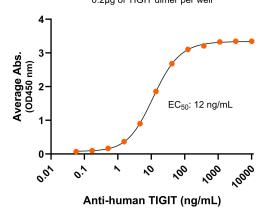


Bioactive, Human TIGIT Dimer, His-Avi Tag Product Code: CSP-24028-03 For Research Use Only (RUO)

Bioactivity - Antibody Binding

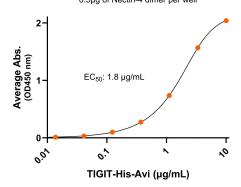
Human TIGIT-His-Avi dimer, ELISA 0.2µg of TIGIT dimer per well



Immobilized TIGIT-His-Avi dimer protein (Cat. No. CSP-24028-03) at 2 μ g/mL (100 μ L/well) can bind anti-human TIGIT monoclonal antibody with half maximal effective concentration (EC50) range of 6.2-24.8 ng/mL (QC tested).

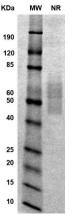
Bioactivity - Ligand Binding

Human TIGIT-His-Avi dimer / Nectin-4, ELISA 0.5µg of Nectin-4 dimer per well



Immobilized human Nectin-4 dimer protein (Cat. No. CSP-24016) at 5 µg/mL (100 µL/well) can bind TIGIT-His-Avi dimer protein (Cat. No. CSP-24028-03) with half maximal effective concentration (EC50) range of 0.88-3.53 µg/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 conditions is 50-60 kDa on SDS PAGE.



Bioactive, Human TIGIT Dimer, His-Avi Tag Product Code: CSP-24028-03 For Research Use Only (RUO)

Expression Host

HEK293T

Protein Name

TIGIT

Purity

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

Alternate Name(s) VSIG9. VSTM3

Protein Construct

TIGIT dimer protein (TIGIT protein dimer) contains a TIGIT extracellular domain (UniProt# Q495A1) with a tandem His-Avi tag at the C-terminus. Expressed in HEK293T cell line.

Amino Acid Range M22-P141

SDS-Page Molecular Weight

60 kDa. The migration range of the dimer under non-reducing conditions is 50-60 kDa on SDS PAGE.

Formulation 0.22µm filtered PBS, pH 7.4

Shipping Conditions

Frozen Dry Ice

Stability & Storage -80°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) and VSTM3 (V-set and transmembrane domain-containing protein 3). TIGIT is a type 1 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. TIGIT's action is highly dependent on its dimerization at the cell surface. TIGIT plays a role in immune suppression and is a therapeutic target for diseases where immune modulation is critical, including cancer and autoimmune diseases.