
Product Name: Bioactive, Human CD155 Protein Dimer, His Tag

Product Code: CSP-24029-01

FOR RESEARCH USE ONLY (RUO)

Protein Name: CD155, Protein Dimer

Alternate Name(s): PVR, HVED, NECL5, Necl-5, PVS, TAGE4, FLJ25946

Expression Host
HEK293T

Amino Acid Range
W21-N343

Protein Construct

CD155 dimer protein contains a CD155 extracellular domain (Uniprot# P15151) fused with a proprietary dimer motif followed by a His tag at the C-terminus. Expressed in HEK293T cell line.

SDS-Page Molecular Weight

150 kDa. The migration range of the dimer under non-reducing condition is 120-190 kDa on SDS PAGE.

Purity

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

Shipping Conditions

Product is shipped at ambient temperature.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4 with 10% trehalose as a protectant

Stability & Storage

On receipt, store at -20 C or lower for long term storage.

This product is stable at:

-20 to -70 C for 12 months from date of receipt in lyophilized state.

-70 C for 3 months after reconstitution under sterile conditions.

Avoid repeated freeze-thaw cycles

Reconstitution of lyophilized product

For best performance, we strongly recommend you reconstitute the lyophilized product with deionized water to a stock solution of 500 µg/mL.

Solubilize for 20 minutes at room temperature with occasional gentle mixing. Avoid shaking or vortexing.

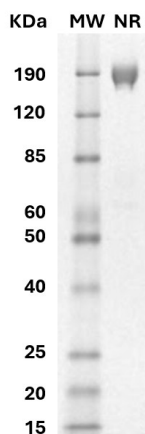
For 25µg product size:

Reconstitute with 50 µL sterile deionized water.

For 100µg product size:

Reconstitute with 200 µL sterile deionized water.

SDS-PAGE



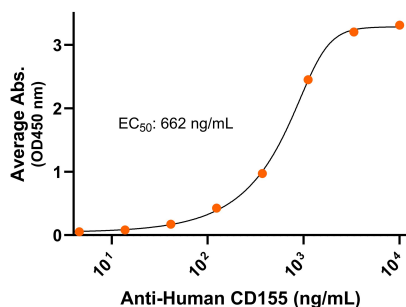
MW: Molecular Weight marker reduced condition

NR: CD155 dimer under non-reducing condition

The migration range of the dimer under non-reducing condition is 120-190 kDa on SDS PAGE.

Antibody Binding

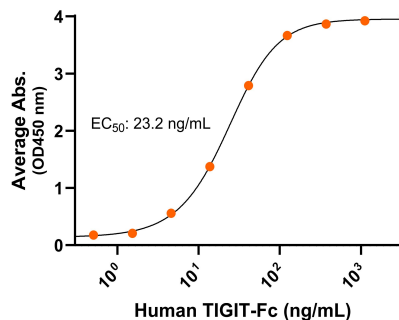
Human CD155-His dimer, ELISA
0.2 µg of CD155 protein dimer per well



Immobilized human CD155 dimer protein, His Tag (Cat. No. CSP-24029-01) at 2 µg/mL (100 µL/well) can bind anti-human CD155 monoclonal antibody with half maximal effective concentration (EC50) range of 373-1492 ng/mL (QC tested).

Ligand Binding

Human CD155-His dimer / TIGIT, ELISA
0.2 µg of CD155 dimer per well



Immobilized human CD155 dimer protein, His Tag (Cat. No. CSP-24029-01) at 2 µg/mL (100 µL/well) can bind human TIGIT dimer protein, with half maximal effective concentration (EC50) range of 17.1-68.4 ng/mL (QC tested).

Background

Human CD155 (cluster of differentiation 155) is a cell-surface type I transmembrane glycoprotein that belongs to the Nectin/Nectin-like family. It is also known as Poliovirus Receptor (PVR), HVED, NECL5, Necl-5, PVS, TAGE4, and FLJ25946. It consists of three extracellular immunoglobulin-like (Ig-like) domains (D1-D3), one transmembrane region, and a C-terminal cytoplasmic domain. CD155 is widely expressed on various cell types and often overexpressed on cancer cells. CD155 dimerization has emerged as an important factor in various diseases, especially cancer, poliovirus infection, and autoimmune disorders. Upregulation of CD155 in several types of human cancers is associated with a poor prognosis. Although CD155 itself is not an immune checkpoint, it's a ligand for checkpoint receptors like TIGIT (T-cell immunoreceptor with Ig and ITIM domains), CD226 (DNAM-1), and CD96. The interactions between CD155 and its receptors on immune cells modulate immune responses, such as T cells and natural killer (NK) cells. This makes CD155 a critical player in immune regulation and a promising target in checkpoint cancer therapies.