
Product Name: Bioactive, Human IL-10R α Protein Dimer, His Tag

Product Code: CSP-24018-01

FOR RESEARCH USE ONLY (RUO)

Protein Name: IL-10R α , Protein Dimer

Alternate Name(s): CD210, IL10R, CD210 α , CDW210A, HIL-10R, and IL-10R1

Expression Host
HEK293T

Amino Acid Range
H22-N235

Protein Construct

IL10R α protein dimer contains 2 extracellular domains (UniProt# Q13651) with a homodimer motif and a His tag at the C-terminus. Expressed in HEK293T cell line.

SDS-Page Molecular Weight

101 kDa. The migration range of the dimer under non-reducing condition is 100-150kDa on SDS PAGE.

Purity

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

Shipping Conditions

Frozen Dry Ice

Formulation

0.22 μ m filtered PBS, pH 7.4

Stability & Storage

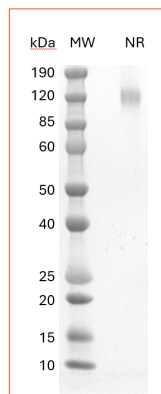
On receipt, store at -70 C or lower for long term storage.

This product is stable at:

-70 C for 6 months from date of receipt.

Avoid repeated freeze-thaw cycles

SDS-PAGE

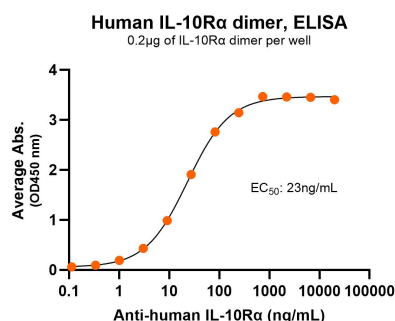


MW: Molecular Weight marker reduced condition

NR:

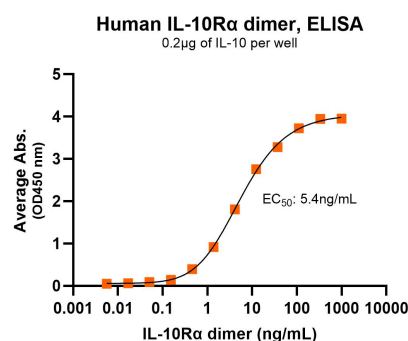
The migration range of the dimer under non-reducing condition is 100-150kDa on SDS PAGE.

Antibody Binding



Immobilize human IL10R α dimer protein (Cat. No. CSP-24018-01) at 2 μ g/mL (100 μ L/well) can bind anti-human IL10R α monoclonal antibody with half maximal effective concentration (EC50) range of 14.6-58.2 ng/mL (QC tested).

Ligand Binding



Immobilize human IL10 protein at 2 μ g/mL (100 μ L/well) can bind IL10R α dimer protein (Cat. No. CSP-24018-01) with half maximal effective concentration (EC50) range of 3.4 - 13.5 ng/mL (QC tested).

Background

Interleukin-10 receptor alpha (IL10R α), also known as IL-10 R1, CD210, CD210 α , CDW210A, is a subunit of interleukin-10 receptor (IL10R) complex. IL10R belongs to the type II cytokine receptor family. IL10R α is a type I integral membrane glycoprotein containing extracellular, transmembrane and intracellular domains. The extracellular domain has two immunoglobulin-like (Ig-like) C2-type domains. IL-10 cytokine dimer interacts with two IL10R α molecules to activate the cascade signaling pathway.