
Product Name: Bioactive, Human IFN γ R1 Protein Dimer, His Tag

Product Code: CSP-24015-01

FOR RESEARCH USE ONLY (RUO)

Protein Name: IFN γ R1/CD119, Protein Dimer

Alternate Name(s): CD119, IFN γ R, IMD27A, and IMD27B

Expression Host
HEK293T

Amino Acid Range
Glu18-Gly245

Protein Construct

IFN γ R1 protein dimer contains IFN γ R1 2 extracellular domains (UniProt# P15260) with a homodimer motif and a His tag at the C-terminus. Expressed in HEK293T cell line.

SDS-Page Molecular Weight

98 kDa. The migration range of the dimer under non-reducing condition is 90-120 kDa 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

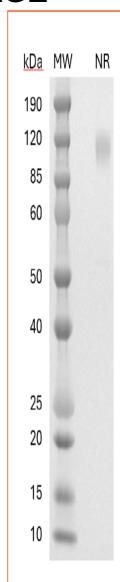
On receipt, store at -70 C or lower for long term storage.

This product is stable at:

-70 C for 6 months from date of receipt.

Avoid repeated freeze-thaw cycles

SDS-PAGE

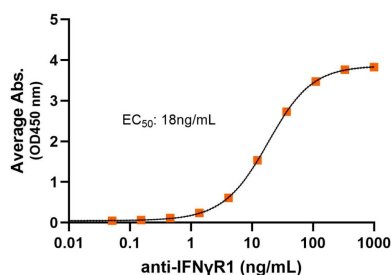


MW: Molecular Weight marker reduced condition

NR: The migration range of the dimer under non-reducing condition is 90-120 kDa on SDS PAGE.

Antibody Binding

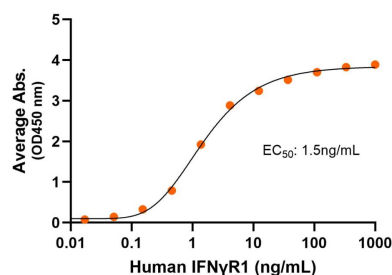
Human IFN γ R1 dimer, ELISA
0.2 μ g of IFN γ R1 dimer per well



Immobilize human IFN γ R1 dimer protein (Cat. No. CSP24015-01) at 2 μ g/mL (100 μ L/well) can bind anti-human IFN γ R1 monoclonal antibody with half maximal effective concentration (EC₅₀) range of 9.2-36.9 ng/mL (QC tested).

Ligand Binding

Human IFN γ R1 dimer, ELISA
0.2 μ g of IFN γ per well



Immobilize human IFN γ protein at 2 μ g/mL (100 μ L/well) can bind IFN γ R1 dimer protein (Cat. No. CSP-24015-01) with half maximal effective concentration (EC₅₀) range of 0.95 - 3.8 ng/mL (QC tested).

Background

Interferon gamma receptor 1 (IFN γ R1), also known as CD119, IMD27A and IMD27B, is a subunit of interferon gamma receptor (IFN γ R). IFN γ R belongs to the type II cytokine receptor family. IFN γ R1 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. The interferon gamma (IFN γ) dimer interacts with two IFN γ R1 molecules to activate the cascade signaling pathway.