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

Product Code: CSP-25295-01

FOR RESEARCH USE ONLY (RUO)

Protein Name: IFN γ R1

Alternate Name(s): cluster of differentiation 119 (CD119), IMD27A, IMD27B, IFN γ R1

Expression Host
HEK293T

Amino Acid Range
E18-G245

Protein Construct

IFN γ R1 dimer protein contains a IFN γ R1 extracellular domain (UniProt# A0A5F8A7G4) fused with a proprietary dimer motif followed by a His tag at the C-terminus. Expressed in HEK293T cell line.

SDS-Page Molecular Weight

68 kDa. The migration range of the heterodimer protein with glycosylation under non-reducing condition is ~120 kDa on SDS PAGE.

Purity

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

Formulation

0.22 μ m filtered PBS, pH 7.4

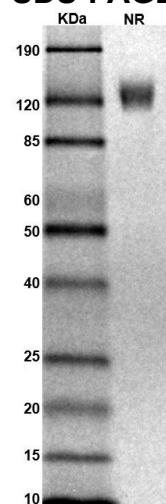
Stability & Storage

-80°C

Shipping Conditions

Frozen Dry Ice

SDS-PAGE



MW: Molecular Weight marker reduced condition

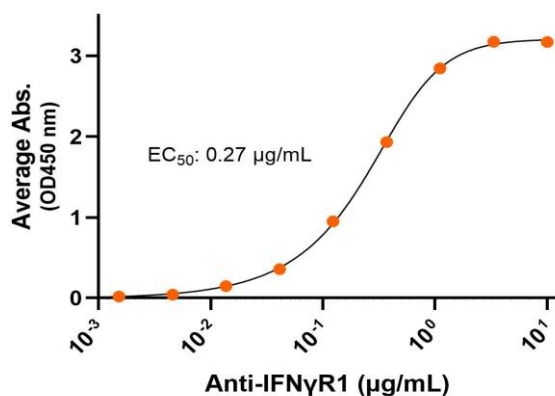
NR: IFN γ R1 dimer under non-reduced condition

The migration range of the heterodimer protein with glycosylation under non-reducing condition is ~120 kDa on SDS PAGE.

Antibody Binding

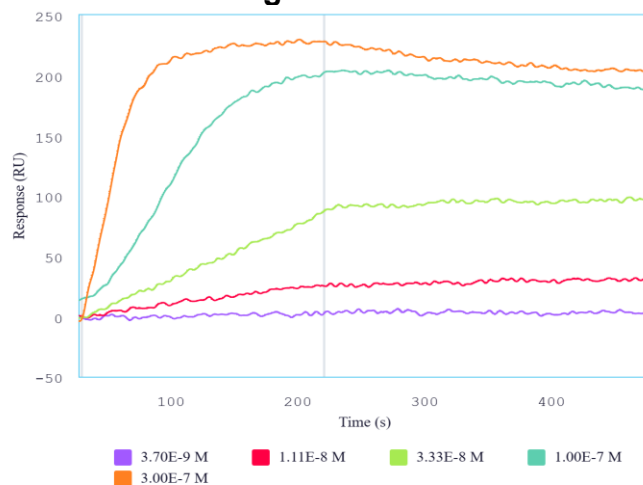
Rhesus macaque IFN γ R1-His dimer, ELISA

0.2 μ g of IFN γ R1 protein dimer per well



Immobilized Rhesus macaque IFN γ R1 protein dimer, His Tag (CSP-25295-01) at 2 μ g/mL (100 μ L/well) can bind anti-human IFN γ R1 polyclonal antibody with half maximal effective concentration (EC₅₀) range of 0.1-0.5 μ g/mL (QC tested).

Label Free Binding



Immobilized Rhesus macaque IFN γ R1 protein dimer, His Tag (CSP-25295-01) can bind human IFN γ with a KD of 1.5-6.1 nM as determined by LSPR (Nicoya Alto).

Background

Interferon gamma receptor 1 (IFN γ R1), also known as cluster of differentiation 119 (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. IFN γ R consists of two subunits: IFN γ R1 (ligand-binding) and IFN γ R2 (signal transduction). 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. While structurally and functionally similar to human IFN γ R1 homodimer, Rhesus macaque IFN γ R1 homodimer is a species-specific tool essential for preclinical studies, basic research, and translational research.