Recombinant Cynomolgus/Rhesus macaque IFN-gamma Protein

Catalog No.: RP00820

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Sequence Information

Species	Gene ID
Cynomolgus /Rhesus macaque	102128291

Swiss Prot	Tags
P63310/P63309	No tag

Synonyms

IFNG,Interferon gamma, IFN-gamma

Product Information

Source	Purification
HEK293 cells	≥ 90% as determined by reducing SDS-PAGE.

Calculated MW	Observed MW
16.76 kDa	15-35 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from 0.22μm filtered solution in PBS (pH 7.4).

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Type II interferon produced by immune cells such as T-cells and NK cells that plays crucial roles in antimicrobial, antiviral, and antitumor responses by activating effector immune cells and enhancing antigen presentation. Primarily signals through the JAK-STAT pathway after interaction with its receptor IFNGR1 to affect gene regulation. Upon IFNG binding, IFNGR1 intracellular domain opens out to allow association of downstream signaling components JAK2, JAK1 and STAT1, leading to STAT1 activation, nuclear translocation and transcription of IFNG-regulated genes. Many of the induced genes are transcription factors such as IRF1 that are able to further drive regulation of a next wave of transcription. Plays a role in class I antigen presentation pathway by inducing a replacement of catalytic proteasome subunits with immunoproteasome subunits. In turn, increases the quantity, quality, and repertoire of peptides for class I MHC loading. Increases the efficiency of peptide generation also by inducing the expression of activator PA28 that associates with the proteasome and alters its proteolytic cleavage preference. Up-regulates as well MHC II complexes on the cell surface by promoting expression of several key molecules such as cathepsins B/CTSB, H /CTSH, and L/CTSL .
Participates in the regulation of hematopoietic stem cells during development and under homeostatic conditions by affecting their development, quiescence, and differentiation .

Basic Information

Description

Recombinant Cynomolgus/Rhesus macaque IFN-gamma Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln24-Gln165) of Cynomolgus/Rhesus macaque IFN-gamma (Accession #P63310/P63309) fused with no-tag.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

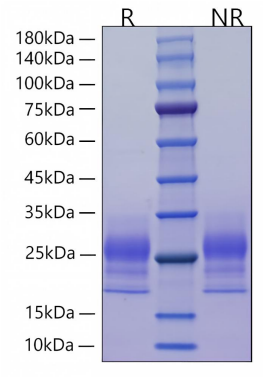
For your safety and health, please wear a lab coat and disposable gloves for handling.

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Validation Data



Recombinant Cynomolgus/Rhesus macaque IFN-gamma Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.