

Ferret IFNG / Interferon Gamma Protein (His Tag)

Catalog Number: 60007-F08H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

IFNG

Protein Construction:

A DNA sequence encoding the ferret IFNG (A4PIZ9) (Met1-Lys166) was expressed with a polyhistidine tag at the C-terminus.

Source: Ferret

Expression Host: Human Cells

QC Testing

Purity: (43.0+47.1+9.3) % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gln 24

Molecular Mass:

The recombinant Ferret IFNG consists of 154 amino acids and has a calculated molecular mass of 18.4 kDa. The apparent molecular mass of the recombinant protein is approximately 28,23 and 19 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

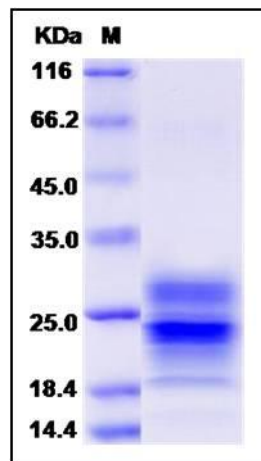
Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

SDS-PAGE:



Reconstitution:

Detailed reconstitution instructions are sent along with the products.

Protein Description

The protein IFN-γR1 (IFNGR1) is the ligand-binding chain(α) of the high-affinity interferon gamma receptor complex which is a heterodimer of IFN-γ R1 (IFN-γ Rα) and IFN-γ R2 (IFN-γ Rβ). IFN-γ R1 is necessary and sufficient for IFN-γ binding and receptor internalization, whereas IFN-γ R2 is required for IFN-γ signal transduction, but does not bind IFN-γ by itself. IFN-γ R1 is constitutively expressed in most cell types and soluble IFN-γ R1 has been detected in biological fluids. Human IFN-γ R1 cDNA encodes a 499 aa residue protein consisting of a 17 aa signal peptide, a 228 aa extracellular domain, a 23 aa transmembrane domain, and a 221 aa intracellular domain. Upon binding to IFN-γ receptor via its C-terminus, the type II interferon IFN gamma triggers multiple intracellular signalling processes including prevention of viral replication, inhibition of cell growth, modulation of cell differentiation, and induction of growth arrest at mid-G1 in different mammary carcinoma cell lines. A genetic variation or deficiency in IFN-γR1 is associated with susceptibility to Helicobacter pylori infection or mycobacterial disease.

References

1. Greenlund AC. et al., 1994, EMBO J. 13: 1591-600.
2. Bach EA. et al., 1997, Annu Rev Immunol. 15: 563-91.
3. Szente BE. et al., 1994, Biochem Biophys Res Commun. 203: 1645-54.
4. Schroder K. et al., 2004, J Leukoc Biol. 75:163-89.

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