

Cynomolgus IFNA13 / Interferon alpha-13 Protein (Fc Tag)

Catalog Number: 90108-C02H



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

IFNA13

Protein Construction:

A DNA sequence encoding the cynomolgus IFNA13 (G7NFW4) (Met1-Glu190) was expressed with the Fc region of human IgG1 at the C-terminus.

Source: Cynomolgus

Expression Host: Human Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Bio-Activity

Measured in antiviral assays using WISH human amnion cells infected with vesicular stomatitisvirus (VSV).
The ED50 for this effect is typically 0.5-3 ng/mL.

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: Cys 25

Molecular Mass:

The recombinant cynomolgus IFNA13 is a disulfide-linked homodimer. The reduced monomer comprises 407 amino acids and has a calculated molecular mass of 46.4 KDa. The apparent molecular mass of the protein is approximately 47 KDa respectively in SDS-PAGE.

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.

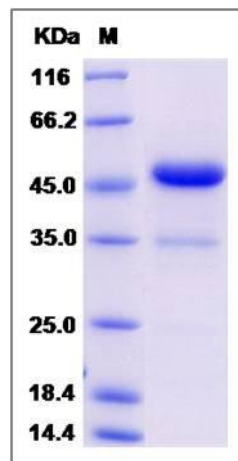
Usage Guide

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

Interferon alpha-13, also known as IFN-alpha-13, Interferon alpha-D, and IFNA13, is a secreted protein which belongs to the alpha / beta interferon family. Interferon alpha-13 / IFNA13 is produced by macrophages, IFN-alpha have antiviral activities. Interferon stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase. Interferons (IFNs) are proteins made and released by host cells in response to the presence of pathogens such as viruses, bacteria, or parasites or tumor cells. They allow communication between cells to trigger the protective defenses of the immune system that eradicate pathogens or tumors. IFNs belong to the large class of glycoproteins known as cytokines. IFNs have other functions: they activate immune cells, such as natural killer cells and macrophages; they increase recognition of infection or tumor cells by up-regulating antigen presentation to T lymphocytes; and they increase the ability of uninfected host cells to resist new infection by virus. Certain host symptoms, such as aching muscles and fever, are related to the production of IFNs during infection.

References

1. Humphray SJ. et al., 2004, Nature. 429: 369-74.
2. Liu Y.J. et al., 2005, Annu Rev Immunol. 23: 275-306.
3. Fensterl V. et al., 2009, Biofactors. 35(1): 14-20.

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