Cynomolgus IFNA4 / IFNα4 / Interferon alpha-4 Protein (Fc Tag)

Catalog Number: 90851-C05H



General Information

Gene Name Synonym:

IFNA4

Protein Construction:

A DNA sequence encoding the cynomolgus IFNA4 (Met1-Asn189) was expressed with Fc region of mouse IgG at the C-terminus.

Source: Cynomolgus

QC Testing

Expression Host:

Purity: > 90 % as determined by SDS-PAGE

Bio Activity:

Measured in antiviral assay using WISH human amnion cells infected with vesicular stomatitisvirus (VSV). The $\rm ED_{50}$ for this effect is 0.03-0.3 ng/mL.

Endotoxin:

 $< 1.0 \; EU \; per \; \mu g$ of the protein as determined by the LAL method

HEK293 Cells

Stability:

Samples are stable for up to twelve months from date of receipt $% \left(1\right) =1$ at -70 $^{\circ}\mathrm{C}$

Predicted N terminal: Cys 24

Molecular Mass:

The recombinant cynomolgus IFNA4 is a disulfide-linked homodimer. The reduced monomer comprises 400 amino acids and has a calculated molecular mass of 45.6 KDa.The apparent molecular mass of the protein is approximately 48 KDa respectively in SDS-PAGE.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 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:

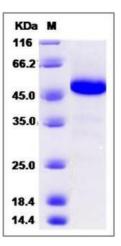
Store it under sterile conditions at -20° C to -80° C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Interferon, alpha 4 (IFNA4) belongs to the alpha/beta interferon family. Two variants of IFNA4 (IFNA4a and IFNA4b) are known, which differ from each other by changes in their coding regions at nucleotide positions 220 and 410 and can be distinguished by selective restriction enzyme analysis. Interferons are produced by macrophages, IFN-alpha have antiviral activities. Interferon stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase. IFN-alpha, the first cytokine to be produced by recombinant DNA technology, has emerged as an important regulator of growth and differentiation, affecting cellular communication and signal transduction pathways as well as immunological control. Originally discovered as an antiviral substance, the efficacy of IFN-alpha in malignant, viral, immunological, angiogenic, inflammatory, and fibrotic diseases suggests a spectrum of interrelated pathophysiologies. IFN-alpha emerged as a prototypic tumor suppressor protein that represses the clinical tumorigenic phenotype in some malignancies capable of differentiation.

References

1.Lau JY, et al. (1993) Discrepancy between biochemical and virological responses to interferon-alpha in chronic hepatitis C. Lancet. 342(8881): 1208-9. 2.Kessler DS, et al. (1990) Interferon-alpha regulates nuclear translocation and DNA-binding affinity of ISGF3, a multimeric transcriptional activator. Genes Dev. 4(10): 1753-65. 3.Gutterman JU. Cytokine therapeutics: lessons from interferon alpha. Proc Natl Acad Sci U S A. 91(4): 1198-205.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288
■ Tel:+86-400-890-9989
■ http://www.sinobiological.com