

Interferon alpha 2/IFNA2 Active Protein | IFNA2 active protein

Interferon alpha 2/IFNA2 Protein, Mouse, Recombinant (hFc Tag)

CATALOG #
AAA258171

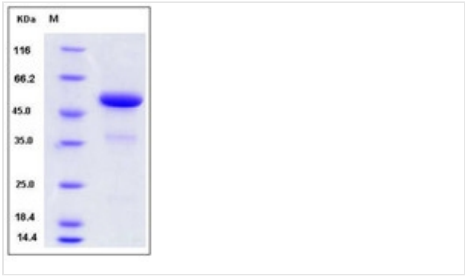
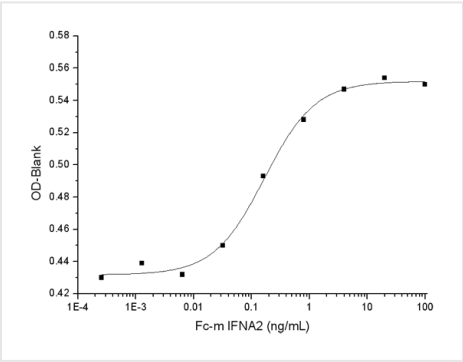
HOST
HEK293 Cells

PRODUCT SYNONYMS

Interferon alpha 2/IFNA2; Interferon alpha 2/IFNA2 Protein; Mouse; Recombinant (hFc Tag); Mouse IFNA2/Interferon alpha 2 Protein (Fc Tag); Ifa2 Protein; interferon; alpha 2; IFNA2 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>88% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Cys24-Glu1 90
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu
Tag	N-human IgG1-Fc
Protein Construction	A DNA sequence encoding the mouse IFNA2 (P01573)(Cys 24-Glu 190) was fused with the Fc region of human IgG1 at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured in antiviral assays using L929 cells infected with vesicular stomatitisvirus (VSV). The ED50 for this effect is 0.1-0.8ng/mL. 2. Measured by its binding ability in a functional ELISA. Immobilized mouse IFNAR1-His at 10ug/ml (100uL/well) can bind mouse Fc-IFNA2. The EC50 of mouse Fc-IFNA2 is 0.8-1.9ug/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured in antiviral assays using L929 cells infected with vesicular stomatitisvirus (VSV).
The ED50 for this effect is 0.1-0.8 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for IFNA2 active protein	Background: IFNA2 (Interferon Alpha 2) is a Protein Coding gene. This gene is a member of the alpha interferon gene cluster on chromosome 9. The encoded protein is a cytokine produced in response to viral infection. Type I Interferons (IFNs) are well-known cytokines that exert antiviral activity, antitumor activity, and immunomodulatory effects. Interferon tau (IFNT), a type I IFN similar to alpha IFNs (IFNA), is the pregnancy recognition signal produced by the ruminant conceptus. Among the IFN-alpha genes, a total of 28 different sequence variants have been described. The three principal subtypes of IFNalpha-2 are designated alpha-2a, alpha-2b, and alpha-2c. IFNalpha-2b is being the predominant allele while IFNalpha-2a is less predominant and IFNalpha-2c only a minor allelic variant.
References	Wang, et al. (2004) Fever of recombinant human interferon-alpha is mediated by opioid domain interaction with opioid receptor inducing prostaglandin E2. J Neuroimmunol. 156(1-2): 107-12.Groopman JE, et al. (1984) Recombinant alpha-2 interferon therapy for Kaposi's sarcoma associated with the acquired immunodeficiency syndrome. Ann Intern Med. 100(5): 671-6.Krueger JM, et al. (1987) Interferon alpha-2 enhances slow-wave sleep in rabbits. Int J Immunopharmacol. 9(1): 23-30.

NCBI AND UNIPROT INFORMATION

NCBI GI #	126722649
NCBI GeneID	15965
NCBI Accession #	NP_034633.2
NCBI GenBank Nucleotide #	NM_010503.2
UniProt Accession #	P01573; Q61717
Molecular Weight	21,922 Da
NCBI Official Full Name	interferon alpha-2
NCBI Official Synonym Full Names	interferon alpha 2
NCBI Official Symbol	Ifna2
NCBI Official Synonym Symbols	Ifa2
NCBI Protein Information	interferon alpha-2
UniProt Protein Name	Interferon alpha-2
UniProt Gene Name	Ifna2
UniProt Synonym Gene Names	IFN-alpha-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/interferon-alpha-2-ifna2/258171>