

General Information

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| Synonyms | Human IFNA2; IFNA2a; IFNalpha 2; IFN- α 2; IFN- α A; INFA2; interferon alpha A |
| Accession # | V00549 |
| Source | Human embryonic kidney cell, HEK293-derived human IFN- α A protein |
| | Cys24-Glu188 |
| Predicted Molecular weight | 19.2 kDa |

Components and Storage

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| Formulation | Solution protein. Dissolved in sterile PBS buffer. |
| | This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening. |

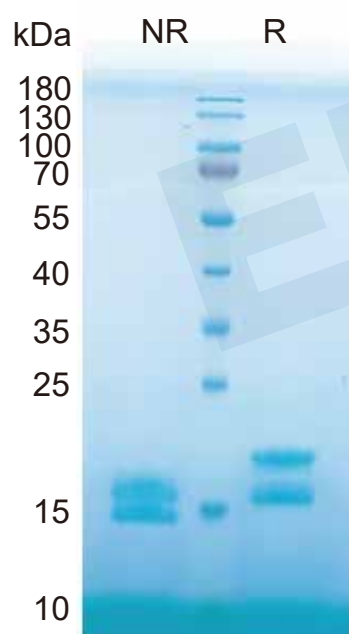
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| Storage and Stability | Avoid repeated freeze-thaw cycles. It is recommended that the protein be aliquoted for optimal storage. 12 months from date of receipt, -20 to -70 °C as supplied. |
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| Shipping | Shipping with dry ice. |
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Quality

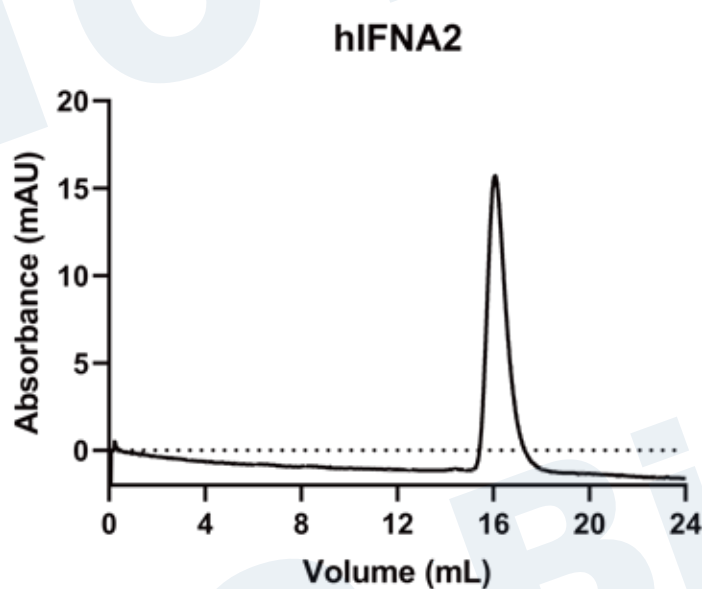
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| Purity | > 95%, determined by SDS-PAGE. |
| Endotoxin Level | <0.010 EU per 1 ug of the protein by the LAL method. |
| Activity | Measured in antiviral assays using WISH human amnion cells infected with vesicular stomatitis virus(VSV). The EC50 for interferon in this assay is 0.5-3 pg/mL. |

SDS-PAGE



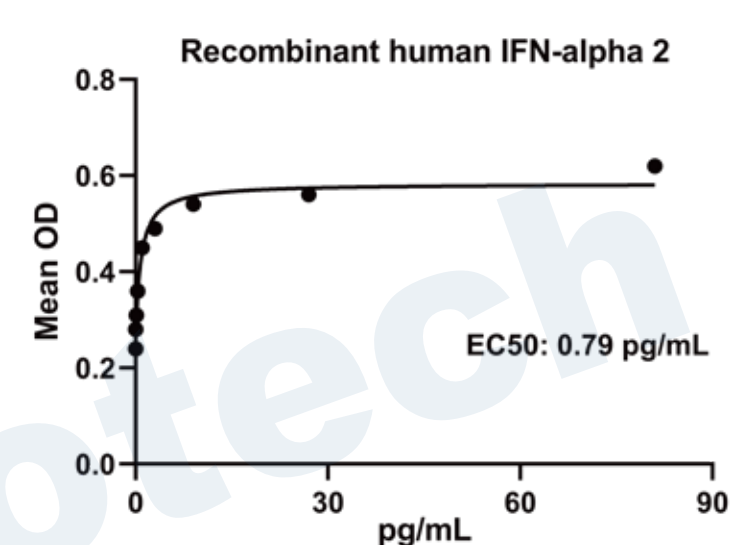
4 ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

Gel filtration



Size-exclusion chromatography of recombinant human IFN- α 2 protein (280 nm absorbance)

Bioactivity



Recombinant human IFN- α 2 (Catalog # HF-2029) was measured in antiviral assays using WISH human amnion cells infected with vesicular stomatitis virus(VSV)

Background

Interon- α (IFN- α), also known as leukocyte interferon, represents a group of related but distinct proteins that share over 95% amino acid sequence homology. They are members of the type I interferon family which share a common cell surface receptor composed of two subunits, a 100 kDa ligand-binding subunit (IFN- α R2) and a 125 kDa ligand binding and signal transduction subunit (IFN- α R1) that is involved both in ligand binding and signal transduction (1, 2). IFN- α has both anti-viral and immunomodulatory activities on target cells. 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- α genes, a total of 28 different sequence variants have been described. The three principal subtypes of IFN α -2 are designated α -2a, α -2b, and α -2c. IFN α -2b is being the predominant allele while IFN α -2a is less predominant and IFN α -2c only a minor allelic variant (2, 3).

Reference

1. Wang. et al. (2004) J Neuroimmunol. 156(1-2): 107-12.
2. Groopman JE, et al. (1984) Ann Intern Med. 100(5): 671-6.
3. Krueger JM, et al. (1987) Int J Immunopharmacol. 9(1): 23-30.

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