

General Information

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

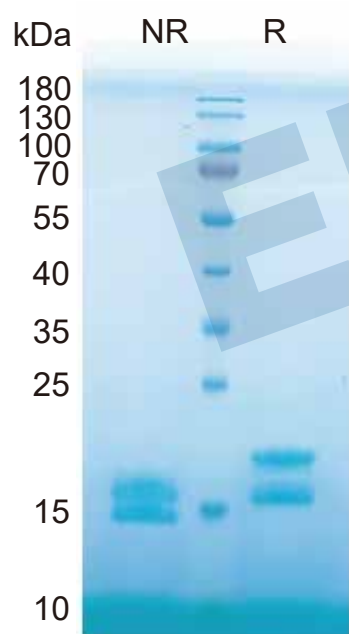
Components and Storage

Formulation	Solution protein. Dissolved in sterile PBS buffer to a concentration of 0.2 mg/mL. This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.
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.
Shipping	Shipping with dry ice

Quality

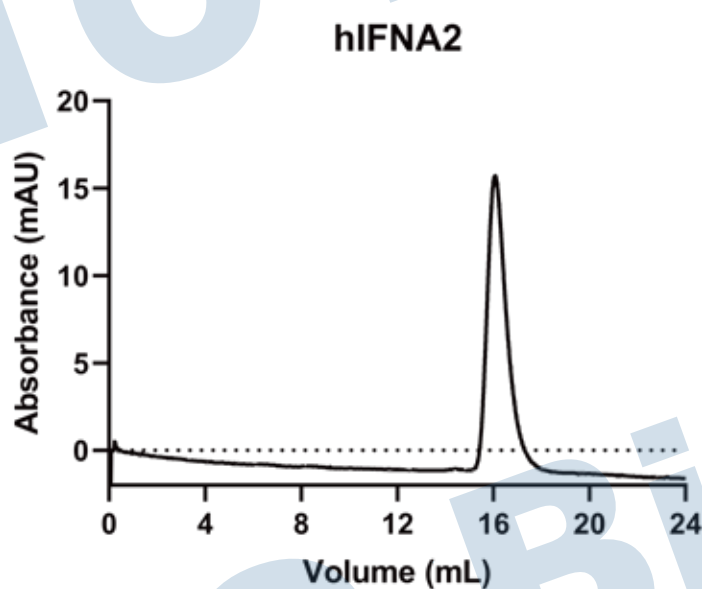
Purity	> 95%, determined by SDS-PAGE
Endotoxin Level	<0.010 EU per 1 ug of the protein by the LAL method
Activity	Measured in antiviral assays using WISH human amnion cells infected with vesicular stomatitis virus(VSV). The EC50 for interferon in this assay is 0.5-3 pg/mL.

SDS-PAGE



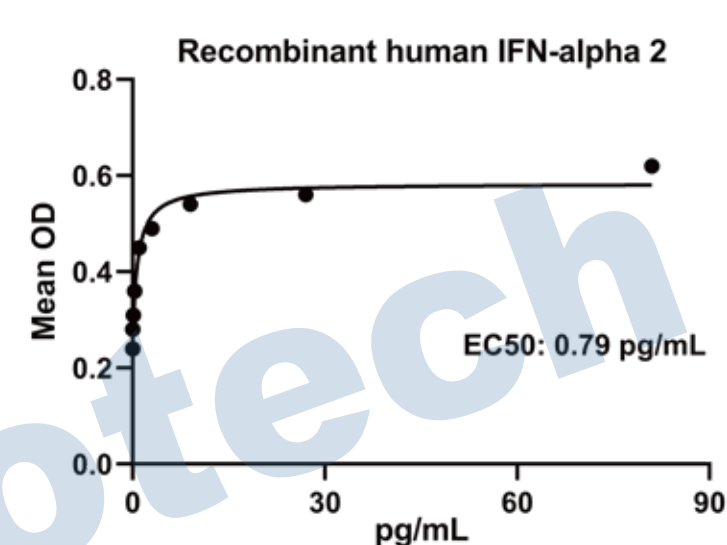
4 ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Coomassie Blue staining.

Gel filtration



Size-exclusion chromatography of recombinant human IFN-alpha2 protein (280 nm absorbance)

Bioactivity



Recombinant human IFN-alpha2 (Catalog # HF-2029) was measured in antiviral assays using WISH human amnion cells infected with vesicular stomatitis virus(VSV)

Background

Interon-alpha (IFN-alpha), 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-alpha R2) and a 125 kDa ligand binding and signal transduction subunit (IFN-alpha R1) that is involved both in ligand binding and signal transduction (1, 2). IFN-alpha 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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