

## IFN-alpha 2a/IFNA2 Protein, Human, Recombinant

### General Information

Synonyms:	Interferon $\alpha$ -2;IFNA2;IFN $\alpha$ 2a;IFN- $\alpha$ -2;IFN-Alpha-2;Interferon Alpha-2;LeIF A;Interferon $\alpha$ -A; Interferon Alpha-A
Protein Construction:	Cys24-Glu188(Arg46Lys)
Species:	Human
Expression Host:	E. coli
Accession:	P01563
Molecular Weight:	16 KDa (reducing condition)
AA Sequence:	Cys24-Glu188(Arg46Lys)

### QC Testing

Biological Activity:	Loaded Human IFNAR2-Fc on Protein A Biosensor, can bind Human IFN alpha2a with an affinity constant of 1.95 nM as determined in BLI assay. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing 20 mM PB, 150 mM NaCl, pH 7.2.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

At least 23 different variants of IFN- $\alpha$  are known. The individual proteins have molecular masses between 19-26 kDa and consist of proteins with lengths of 156-166 and 172 amino acids. All IFN- $\alpha$  subtypes possess a common conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Many IFN- $\alpha$  subtypes only differ in their sequences by one or two positions. Naturally occurring variants also

include proteins truncated by 10 amino acids at the carboxy-terminal end.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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