

## GFH54

## Recombinant Human IFN- $\alpha$ 2a

### Description

Interferon- $\alpha$  2a (IFN- $\alpha$  2a) is a type I interferon made by leukocytes during viral infection. The JAK-STAT pathway mediates the antiviral and anti-cell proliferation activities of IFN- $\alpha$  2a. IFN- $\alpha$  proteins are widely used as standard treatments during antiviral and antineoplastic therapies. The IFN- $\alpha$  2a variant differs from IFN- $\alpha$  2b by one amino acid.

<b>Length</b>	166 aa
<b>Molecular Weight</b>	19.4 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P01563
<b>Purity</b>	$\geq 95\%$ determined by reducing and non-reducing SDS-PAGE

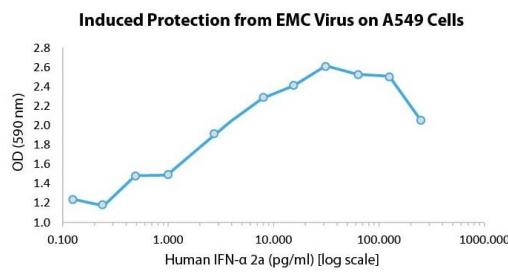
### Specifications

<b>Alternative Names</b>	Interferon- $\alpha$ 2b, interferon-alpha, interferon alpha, type I Interferon $\alpha$ 2, IFN $\alpha$ 2
<b>Biological Activity</b>	Human IFN- $\alpha$ 2a is fully biologically active when compared to standard. The activity is determined by the viral CPE assay using EMC virus on A549 cells. The activity corresponds to an expected specific activity of $2.0 \times 10^8$ units/mg.
<b>Endotoxin Level</b>	$\leq 1.00$ EU/ $\mu$ g as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	MCDILPQTHSL GSRRRTLMLLA QMRRISLFSC LKDRHDFGFP QEFGNQFQK AETIPVLHEM IQQIFNLFST KDSSAAWDET LLDKFYTELY QQLNDLEACV IQGVGVETEP LMKEDSILAV RKYFQRITLY LKEKKYSPCA WEVVRAEIMR SFSLSTNLQE SLRSKE

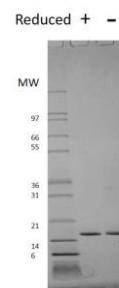
### Preparation and Storage

<b>Reconstitution</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
<b>Stability and Storage</b>	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

### Data



Viral CPE assay using EMC virus on A549 cells for Human IFN- $\alpha$  2a.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1  $\mu$ g of protein was loaded in each lane. Human IFN- $\alpha$  2a has a predicted Mw of 19.4 kDa.