

## Recombinant Human Interferon-alpha2a (Human IFN- $\alpha$ 2a)

### Product Information

Product Name	Cat#	Size
Recombinant Human Interferon-alpha2a (Human IFN- $\alpha$ 2a)	91203ES60	100 $\mu$ g
	91203ES76	500 $\mu$ g

### Product Description

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 IFN $\alpha$ -2 are designated  $\alpha$ -2a,  $\alpha$ -2b, and  $\alpha$ -2c. IFN $\alpha$ -2b is being the predominant allele while IFN $\alpha$ -2a is less predominant and IFN $\alpha$ -2c only a minor allelic variant.

### Product Properties

<b>Synonyms</b>	IFN-alpha 2a protein
<b>Accession</b>	P01563
<b>GeneID</b>	3440
<b>Source</b>	Yeast-derived Human IFN- $\alpha$ 2a protein,Cys24-Glu188.
<b>Molecular Weight</b>	Approximately 19.2 kDa
<b>AA Sequence</b>	CDLPQTHSLG SRRTLMLLAQ MRKISLFSCL KDRHDFGFPQ EEFGNQFQKA ETIPVLHEMI QQIFNLFSTK DSSAAWDETL LDKFYTELYQ QLNDLEACVI QGVGVTTETPL MKEDSILAVR KYFQRITLYL KEKKYSPCAW EVVRAEIMRS FSLSTNLQES LRSKE
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	> 97 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The specific activity determined by an anti-viral assay is no less than $1.0 \times 10^8$ IU/mg.
<b>Endotoxin</b>	< 1.0 EU per 1 $\mu$ g of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.4. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
<b>Reconstitution</b>	Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20$ °C. Further dilutions should be made in appropriate buffered solutions.

### Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

### Cautions

1. Avoid repeated freeze-thaw cycle

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2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.