

## 32-1310: IFN $\alpha$ 1a Recombinant Protein

**Alternative Name :** Interferon-alpha 1a,IFN-a 1a,IFN alpha 1a.

### Description

Source : Escherichia Coli. Interferon-alpha 1a Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 165 amino acids and having a molecular mass of 19.4 kDa. The Interferon-alpha 1a contains Valine residue at position 114. The IFN-a 1a is purified by proprietary chromatographic techniques. 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 differ in their sequences at only one or two positions. Naturally occurring variants also include proteins truncated by 10 amino acids at the carboxy-terminal end.

### Product Info

<b>Amount :</b>	100 $\mu$ g
<b>Purification :</b>	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	The IFN-a 1a protein was lyophilized from a 0.2 $\mu$ m filtered concentrated solution in PBS, pH 7.4. Lyophilized Interferon alpha 1a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-alpha 1a should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Storage condition :</b>	
<b>Amino Acid :</b>	CDLPETHSLD NRRTLMLLAQ MSRISPSSCL MDRHDFGFPQ EFDGNQFQK APAISVLHEL IQQIFNLFTT KDSSAAWDED LLDKFCTELY QQLNDLEACV MQEERVGETP LMNADSILAV KKYFRRTILY LTEKKYSPCA WEVVRAEIMR SLSLSTNLQE RLRRKE.

### Application Note

It is recommended to reconstitute the lyophilized IFN alpha 1a in sterile 18M $\Omega$ cm H<sub>2</sub>O not less than 100 $\Omega$  $\mu$ g/ml, which can then be further diluted to other aqueous solutions. The specific activity as determined in a viral resistance assay viral resistance assay was found to be 100,000,000IU/ mg.

