

32-1310: IFN α 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

Amount :	100 μ g
Purification :	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The IFN-a 1a protein was lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Storage condition :	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.
Amino Acid :	CDLPETHSLD NRRTLMLLAQ MSRISPSSCL MDRHDFGFPQ EEFDGNQFQK APAISVLHEL IQQIFNLFTT KDSSAAWDED LLDKFCTELY QQLNDLEACV MQEERVGETP LMNADSILAV KKYFRITLY LTEKKYSPCA WEVVRAEIMR SLSLSTNLQE RLRRKE.

Application Note

It is recommended to reconstitute the lyophilized IFN alpha 1a in sterile 18M Ω -cm H₂O not less than 100 μ 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.

