



Interferon alpha1a, human recombinant (rHuIFN-alpha1a)

Catalog No: 95052
Lot No: XXXXX
Source: *E. coli*
Synonyms: Interferon-alpha 1a, IFN-a 1a, IFN alpha 1a

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 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.

Description

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. Interferon-alpha 1a contains valine residue at position 114. IFN-a 1a is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a (1 mg/ml) solution in containing 1 x PBS pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized IFN alpha 1a in sterile 18 M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

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.

Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

CDLPETHSLD NRRTLMLLAQ MSRISPSSCL MDRHDFGFPQ EEFDGNQFQK APAISVLHEL IQQIFNLFTT KDSSAAWDED
LLDKFCTELY QQLNDLEACA MQEERVGETP LMNVDSILAV KKYFRRITLY LTEKKYSPCA WEVVRAEIMR SLSLSTNLQE
RLRRKE

Activity

The specific activity as determined in a viral resistance assay viral resistance assay was found to be 100,000,000 IU/ mg.

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Usage

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