

IFN a 1a Human

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

Catalog #: CYP5-527

For research use only.

Synonyms: Interferon-alpha 1a, IFN-a 1a, IFN alpha 1a.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: CDLPETHSLD NRRTLMLLAQ MSRISPSSCL MDRHDFGFPQ
EEFDGNQFQK APAISVLHEL IQQIFNLFTT KDSSAAWDED LLDKFCTELY QQLNDLEACA
MQEERVGETP LMNVDSILAV KKYFRRITLY LTEKKYSPCA WEVVAEIMR SLSLSTNLQE
RLRRKE.

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

Formulation:

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

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

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

Introduction:

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.

Biological Activity:

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

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