

IFN a 2a Human

Description: Interferon Alpha Human 2a Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 165 amino acids and having a molecular mass of 19241 Dalton. The Interferon-a 2a gene was obtained from human leukocytes. The IFN-A 2a is purified by proprietary chromatographic techniques.

Catalog #: CYP5-211

For research use only.

Synonyms: Leukocyte interferon, B cell interferon, Type I interferon, IFNA2, IFN-a 2a.

Source: Escherichia Coli.

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

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Cys-Asp-Leu-Pro-Gln, conforming to the sequence of native human IFN-a. N-terminal methionine has been completely removed enzymatically.

Purity: Greater than 98.0% as determined by both: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

Lyophilized without additives.

Stability:

Lyophilized Interferon alpha 2a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-alpha 2a 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 Interferon-alpha 2a in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

IFN-alpha is produced by macrophages and has antiviral activities. Interferon stimulates the production of two enzymes: protein kinase and an oligoadenylate synthetase.

Biological Activity:

The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 270,000,000 IU/mg.

References:

Title: Gender specificity of altered human immune cytokine profiles in aging. Publication: Published online before print May 7, 2010, doi: 10.1096/fj.10-160911 September 2010 The FASEB Journal vol. 24 no. 9 3580-3589 Link: <http://www.fasebj.org/content/24/9/3580.full>

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