



Product Datasheet

Product Name	Recombinant Human Interferon-Alpha 2a
Cata No	CB500106
Source	<i>Escherichia Coli.</i>
Synonyms	Leukocyte interferon, B cell interferon, Type I interferon, IFNA2, IFN- α 2a.

Description

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

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

The specific activity as determined in a viral resistance assay using bovine kidney MDBK cells was found to be 2.7×10^8 IU/mg.

Purity

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

Formulation

Lyophilized lyophilized without additives.

Reconstitution

It is recommended to reconstitute the lyophilized Interferon-alpha 2a in sterile 18M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Interferon alpha 2a although stable at room temperature for 3 weeks, should be stored desiccated below -18 $^{\circ}$ C. Upon reconstitution IFN-alpha 2a should be stored at 4 $^{\circ}$ C between 2-7 days and for future use below -18 $^{\circ}$ C.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

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.

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