

Interferon-Alpha 2a Human Recombinant

Item Number	rAP-0452
Synonyms	Leukocyte interferon, B cell interferon, Type I interferon, IFNA2, IFN-a 2a.
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.
Uniprot Accession Number	P01563
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.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	Lyophilized without additives. Greater than 97.0% as determined by both: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Interferon-alpha 2a in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
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.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**