

Human IFN a 2a Recombinant Protein



RPPB0382

Product Information Protein Information

Product SKU:

RPPB0382

Accession:

P01563

Host:

Escherichia Coli.

Protein description:

IFN 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 difference between IFNA2A and IFNA2B is in the amino acid present at position 23. IFN-alpha 2a has a lysine at that position 23 while IFN-alpha 2b has arginine. The IFNA2A gene was obtained from human leukocytes. The IFNA2A is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

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

Formulation:

Lyophilized without additives.

Purity:

Greater than 97.0% as determined by both:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized IFNA2A in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability:

Lyophilized IFNA-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.

Amino Acid Sequence:

CDLPQTHSLGSRRTLMLLAQMRKISLFSCCLKDRHDFGFPEEFNGNQFQKAETIPVLHEM
IQQIFNLFSTKDSSAAWDETLDDKFYTELYQQLNDLEACVIQGVGVTEPLMKEDSILAV
RKYFQRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLSRKE. N-terminal methionine has been completely removed enzymatically.

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.