

Human IFN a 2a Recombinant Protein



RPPB0383

Product Information Protein Information

Product SKU:

RPPB0383

Accession:

P01563

Host:

Nicotiana Sp.Plant.

Protein description:

Interferon Alpha Human 2a Recombinant produced in Plant is a single, glycosylated, polypeptide chain containing 165 amino acids and having a molecular mass of 19 kDa. The Interferon-a 2a contains affinity 6xHis tag on C-terminus. The IFN-A 2a is purified by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

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

Formulation:

Lyophilized, containing 50% SDS.

Purity:

Greater than 99.0% as determined by both: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Solubility:

It is recommended to reconstitute the lyophilized Interferon-alpha 2a in sterile 18MΩ-cm H₂O not less than 100µg/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°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:

The sequence of the first twelve N-terminal amino acids was determined and was found to be Cys-Asp-Leu-Pro-Gln-Thr-His-Ser-Leu-Gly-Ser-Arg.

Biological Activity:

The specific activity was determined by a quantitative gene report bioassay using human Type I interferon-sensitive cells. Compared with bacterial derived recombinant IFN-a 2a, assayed in the same conditions, plant derived IFN-alpha 2a showed 6.1×10^8 Units/mg in reference to a viral resistance assay using bovine kidney MDBK cells.