

32-1313: IFN α 2a Plant Recombinant Protein

Alternative Name : Leukocyte interferon,B cell interferon,Type I interferon,IFNA2,IFN- α 2a.

Description

Source : Nicotiana Sp.Plant. 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- α 2a contains affinity 6xHis tag on C-terminus.The IFN-A 2a is purified by proprietary chromatographic techniques. IFN- α is produced by macrophages and has antiviral activities. Interferon stimulates the production of two enzymes: protein kinase and an oligoadenylate synthetase.

Product Info

Amount :	25 μ g
Purification :	Greater than 99.0% as determined by both:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	Lyophilized, containing 50% SDS.
Storage condition :	Lyophilized Interferon alpha 2a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IFN- α 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 :	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.

Application Note

It is recommended to reconstitute the lyophilized Interferon- α 2a in sterile $18\text{M}\Omega\text{-cm}$ H₂O not less than $100\text{Å}\mu\text{g/ml}$, which can then be further diluted to other aqueous solutions. The specific activity was determined by a quantitative gene report bioassay using human Type I interferon-sensitive cells. Compared with bacterial derived recombinant IFN- α 2a, assayed in the same conditions, plant derived IFN- α 2a showed $6.1\text{Å}—108$ Units/mg in reference to a viral resistance assay using bovine kidney MDBK cells.

