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IFN a 2a Human, Plant

Interferon Alpha 2a Human Recombinant, Tobacco
CYK0187

Product Overview

Name	IFN a 2a Human, Plant
Description	
Interferon Alpha 2a Human Recombinant, Tobacco	
Accession (Primary)	P01563
Synonyms	
Leukocyte interferon, B cell interferon, Type I interferon, IFNA2, IFN-a 2a.	
Introduction	
IFN-alpha is produced by macrophages and has antiviral activities. Interferon stimulates the production of two enzymes: protein kinase and an oligoadenylate synthetase.	
Source	
Nicotiana Sp.Plant.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized, containing 50% SDS.	
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.	
Purity	
Greater than 99.0% as determined by both: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
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.

Solubility

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

Precautions

IFN a 2a Human, Plant is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01563)