9051 Mira Mesa Blvd, #910094
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Tel: 760-390-3989

IFNA1A Human

IFN-Alpha 1a Human Recombinant
CYK0202

Product Overview

Name	IFNA1A Human
Description	
IFN-Alpha 1a Human Recombinant	
Accession (Primary)	P01562
Synonyms	
IFN-alpha 1a, IFN-a 1a, IFN alpha 1a.	
Introduction	
At least 23 different variants of IFN-alpha are known. The individual proteins have molecular masses between 19-26 kDa and consist of proteins with lengths of 156-166 and 172 amino acids. All IFN-alpha subtypes possess a common conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Many IFN-alpha subtypes differ in their sequences at only one or two positions. Naturally occurring variants also include proteins truncated by 10 amino acids at the carboxy-terminal end.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The IFN-a 1a protein was lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4, containing 3% Mannitol, 5% Trehalose, 0.05% Tween-80.	
Stability	
Lyophilized IFNA1A although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFN-alpha 1a 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 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	
MCDLPETHSL DNRRTLMLLA QMSRISPSSC LMDRHDFGFP QEEFDGNQFQ KAPAISVLHE LIQQIFNLFT TKDSSAAWDE DLLDKFCTEL YQQLNDLEAC VMQEERVGET PLMN A DSILA VKKYFRRITL YLTEKKYSPC	

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AWEVVRAEIM RSLSLSTNLQ ERLRRKE.

Biological Activity

The specific activity as determined in a viral resistance assay viral ressistance assay was found to be 100,000,000IU/mg.

Solubility

It is recommended to reconstitute the lyophilized IFN alpha 1a in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IFNA1A Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01562)