
Product Data Sheet

Product Name: IFNA1A Human
 Cat. No.: GP20381
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IFN-alpha 1a; IFN-a 1a; IFN alpha 1a.		
Amino Acid Sequence	MCDLPETHSL DNRRTLMLLA QMSRISPSSC LMDRHDFGFP QEEFDGNQFQ KAPAVISVLHE LIQQIFNLFT TKDSSAAWDE DLLDKFCTEL YQQLNDLEAC VMQEERVGET PLMNADSILA VKKYFRRITL YLTEKKYSPC AWEVVRAEIM RSLSLSTNLQ ERLRRKE.		
Solubility	It is recommended to reconstitute the lyophilized IFN alpha 1a in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The IFN-a 1a protein was lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4, containing 3% Mannitol, 5% Trehalose, 0.05% Tween-80.		

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.

Biological Activity

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

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized IFN α 1A 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.

Background

IFN-alpha 1a Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 167 amino acids and having a molecular mass of 19.5kDa. The IFN α 1A (V115A) is purified by proprietary chromatographic techniques.

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