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## Product Data Sheet

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Product Name: IFNW1 Human  
 Cat. No.: GP20407  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IFN omega-1; IFN alpha-II-1; IFNW1.		
Amino Acid Sequence	MCDLPQNHGL LSRNTLVLLH QMRRISPFLC LKDRRDFRFP QEMVKGSQ LQ KAHVMSVLHE MLQQIFSLFH TERSSAAWNM TLLDQLHTGL HQQLQHLETC LLQVVGEGES AGAISSPALT LRRYFQGIRV YLKEKKYSDC AWEVVRMEIM KSLFLSTNMQ ERLRSKDRDL GSS.		
Solubility	It is recommended to reconstitute the lyophilized IFNW1 in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

### Introduction

IFN-Omega 1 is a type I IFN, that can be induced by virus-infected leukocytes. Type I IFN family members, which include IFN-alpha, IFN-beta, and IFN-omega, signal through IFNAR-1/IFNAR-2 receptor complex, and wield antiviral and antiproliferative activities. IFNW1 exhibits about 75% sequence homology with IFN-a, and contains 2 conserved disulfide bonds, which are essential for full biological activity.

### Biological Activity

The ED<sub>50</sub> was determined by a cytotoxicity assay using Human TF-1 cells is <0.01 ng/ml, corresponding to a specific activity of >100,000,000 units/mg.

### Stability

Lyophilized IFNW1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IFNW1 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

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

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carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

IFN-Omega 1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 172 amino acids and having a molecular mass of 19.9kDa. The IFN-Omega 1 is purified by proprietary chromatographic techniques.

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