## PRODUCT DATA SHEET



Bioworld Technology,Inc.

# Recombinant IFN-α 2a, Human

Catalog Number: BK0078-10µg Source: Escherichia coli. Quantity: 10µg

### **Description:**

Interferon-Alpha 2a (IFN-Alpha 2a), Human produced by leukocytes is a member of Interferon family. IFN-alpha is mainly involved in innate immune response against a broad range of viral infections. IFN-alpha 2 has three acid stable forms (a,b,c) signaling through IFNAR2. IFN-alpha 2a shares 99.4%, 98.8% aa sequence identity with IFN-alpha 2b and 2c respectively. IFN-alpha contains four highly conserved cysteine residues which form two disulfide bonds, one of which is necessary for biological activity.Recombinant Interferon-Alpha 2a (IFN-Alpha 2a), Human produced in E.coli is a single non-glycosylated polypeptide chain containing 165 amino acids. A fully biologically active molecule, rhIFN-Alpha has a molecular mass of 19.2kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

# **Molecular Weight:**

19.2kDa, observed by reducing SDS-PAGE.

## **Purity:**

> 95% by SDS-PAGE and HPLC analyses.

### **Biological Activity:**

ED50 < 0.1 ng/ml, measured by a cytotoxicity assay using TF-1 Cells, corresponding to a specific activity of  $> 1.0 \times 10^7$  units/mg.

## **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

#### **Formulation:**

Lyophilized after extensive dialysis against PBS.

#### **AA Sequence:**

CDLPQTHSLGSRRTLMLLAQMRKISLF-SCLKDRHDFGFPQEEFGNQFQKAETIPVLHEM-IQQIFNLFSTKDSSAAWDETLLDKFY-TELYQQLNDLEACVIQGVGVTETPLMKED-SILAVRKYFQRITLYLKEKKYSPCAWEV-VRAEIMRSFSLSTNLQESLRSKE

#### **Endotoxin:**

< 0.2 EU/µg, determined by LAL method.

### **Reconstitution:**

Reconstituted in ddH2O at 100 μg/ml.

### **Storage:**

Lyophilized recombinant human Interferon-Alpha 2a (rhIFN-Alpha 2a) remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, rhIFN-Alpha 2a should be stable up to 2 weeks at 4  $^{\circ}$ C or up to 3 months at -20  $^{\circ}$ C.

#### Usage

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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