

Bioworld Technology,Inc.

Recombinant IFN-α 2a, Human

Catalog Number: BK0078-50µg

Source: Escherichia coli.

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Quantity: 50µg

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 > 1.0×10^{7} units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

CDLPQTHSLGSRRTLMLLAQMRKISLF-SCLKDRHDFGFPQEEFGNQFQKAETIPVLHEM-IQQIFNLFSTKDSSAAWDETLLDKFY-TELYQQLNDLEACVIQGVGVTETPLMKED-SILAVRKYFQRITLYLKEKKYSPCAWEV-VRAEIMRSFSLSTNLQESLRSKE

Endotoxin:

 $< 0.2 \text{ EU/}\mu g$, 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 \degree from date of receipt. Upon reconstitution, rhIFN-Alpha 2a should be stable up to 2 weeks at 4 \degree or up to 3 months at -20 \degree .

Usage:

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