

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IFN- α 2b, Human

Catalog Number: BK0079-10 μ g

Source: Escherichia coli.

Quantity: 10 μ g

Description:

Interferon-Alpha 2b (IFN-Alpha 2b) 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 2b shares 99.4% aa sequence identity with both IFN-alpha 2a and 2c. IFN-alpha contains four highly conserved cysteine residues which form two disulfide bonds, one of which is necessary for biological activity. Recombinant human Interferon-Alpha 2b (rhIFN-Alpha 2b) produced in E.coli is a single non-glycosylated polypeptide chain containing 165 amino acids. A fully biologically active molecule, rhIFN-Alpha 2b 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 < 0.05 ng/ml, measured by a cytotoxicity assay using TF-1 Cells, corresponding to a specific activity of > 2.0 \times 10⁷ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

CDLPQTHSLGSRRTLMLLAQMRRISLF-
SCLKDRHDFGFPQEEFGNQFQKAETIPVLHEM-
IQQIFNLFSTKDSSAAWDETLLDKFY-
TELYQQLNDLEACVIQGVGVTTETPLMKED-
SILAVRKYFQRITLYLKEKKYSPCAWEV-
VRAEIMRSFSLSTNLQESLRSKE

Endotoxin:

< 0.2 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 μ g/ml.

Storage:

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

Usage:

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