

AR31171PU-N

Human IFNB / Interferon beta - Purified

Alternate names:

Fibroblast interferon, IFB, IFN-beta, IFNB1

Quantity:

20 µg

Background:

Proteins of this family play an important role in inducing non-specific resistance against a broad range of viral infections. They also affect cell proliferation and modulate immune responses. Produced by peripheral blood leukocytes and lymphoblastoid cells, IFN-alpha is an acid stable molecule that signals through IFN-alpha/betaR, which is also used by IFN-beta. Both IFNs have similar anti-viral activity and regulate expression of MHC class I antigens. IFN-alpha contains four highly conserved cysteine residues which form two disulfide bonds, one of which is necessary for biological activity.

Uniprot ID:

[P01574](#)

NCBI:

[NP_002167.1](#)

GeneID:

[3456](#)

Species:

Human

Source:

CHO cells

Format:

State: Lyophilized purified protein

Purity: >95% by SDS-PAGE and HPLC

Stabilizers: None

Endotoxin Level: < 0.1 ng per µg of IFN-beta

Reconstitution: Restore in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.

Description:

Recombinant Human IFN-beta is a 20.0 kDa protein containing 166 amino acid residues. Due to glycosylation, IFN-beta has an approximate MW of 22.3 kDa based on SDS-PAGE gel and Mass Spectrometry.

AA Sequence:

MSYNLLGFLQ RSSNFQCQKL LWQLNGRLEY CLKDRMNFDI PEEIKQLQQF QKEDAALTIY
EMLQNIFAIF RQSSSTGWN ETIVENLLAN VYHQINHLKT VLEEKLEKED FTRGKLMSSL
HLKRYYGRI LHYLKAKEYSH CAWTIVRVEI LRNFYFINRL TGYLRN

Biological Activity: Determined by dose-dependent ability to reduce tetrazolium salt, WST-8, by dehydrogenase activities of BaF3 cells expressing FGF receptors using Cell Counting Kit-8 (CCK-8)."

Molecular weight: 22.3 kDa

Storage:

Store lyophilized at 2-8°C for 6 months or at -20°C long term.

After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.