IFN-omega Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Interferon alpha-II-1

Cat. No.:

RBG10185020	(20 µg)
RBG10185100	(100 µg)
RBG10185250	(250 µg)

Description

IFN-? is a type I interferon that can be induced by virus-infected leukocytes. Members of the type I interferon family, which includes IFN-alpha, IFN-beta, and IFN-?, signal through the IFNAR-1/IFNAR-2 receptor complex, and exert antiviral and antiproliferative activities. IFN-? exhibits about 75% sequence homology with IFN-alpha, and contains two conserved disulfide bonds that are necessary for full biological activity. Recombinant Human IFN-? is a 19.9 kDa protein consisting of 172 amino acid residues.

Introduction to the Molecule

IFN? belongs to class I interferon. In the human genome, the IFN? gene family consists of seven members located on chromosome 9. IFN? is a major component of human leukocyte IFN. Therapeutically administered IFN? may cause measurable serum concentrations in the corresponding patients. Monitoring of these IFN? serum levels provides an important tool in therapy.

Research topic

Cytokines and chemokines and related molecules

Amino Acid Sequence

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CDLPQNHGLL SRNTLVLLHQ MRRISPFLCL KDRRDFRFPQ EMVKGSQLQK AHVMSVLHEM LQQIFSLFHT ERSSAAWNMT
LLDQLHTGLH QQLQHLETCL LQVVGEGESA GAISSPALTL RRYFQGIRVY LKEKKYSDCA WEVVRMEIMK SLFLSTNMQE
RLRSKDRDLG SS
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Source

E. coli

Purity

98%

Biological Activity

The ED_{50} was determined by a cytotoxicity assay using Human TF-1 cells is 0.01 ng/ml, corresponding to a specific activity of 1×10^8 units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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