

IFN- ω , human recombinant

CATALOG #: 7164-10 10 μ g
 7164-50 50 μ g

ALTERNATE NAMES: IFN alpha II-1, IFNW1

SOURCE: E Coli

PURITY: \geq 98% by SDS-PAGE gel and HPLC analyses

MOL. WEIGHT: 19.9 kDa

ENDOTOXIN LEVEL: < 0.1 ng/ μ g of protein (<1EU/ μ g).

FORM: Lyophilized

FORMULATION: Sterile filtered through a 0.2 micron filter. Lyophilized with no additives.

STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

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.

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

BIOLOGICAL ACTIVITY:
 The ED₅₀ was determined by a cytotoxicity assay using Human TF-1 cells is \leq 0.01 ng/ml, corresponding to a specific activity of \geq 1 x 10⁸ units/mg.

AMINO ACID SEQUENCE:

CDLPQNHGLL SRNTLVLLHQ MRRISPFLCL KDRRDRFPQ EMVKGSQLQK
 AHVMSVLHEM LQQIFSLFHT ERSSAAWNMT LLDQLHTGLH QQLQHLETCL
 LQVVGEGESA GAISSPALT L RRYFQGIRVY LKEKKYSDCA WEVVRMEIMK
 SLFLSTNMQE RLRSKDRDLG SS

RELATED PRODUCTS:

- IFN- λ 1, human recombinant (Cat # 7162-10, -50)
- IFN- λ 2, human recombinant (Cat # 7163-10, -50)
- Human Cell^{exp} Human Recombinant IFN-alpha 2b (Cat # 6459-10, -50)
- IFN-alpha 2a, human recombinant (Cat # 4594-20, -100, -1000)
- IFN-alpha 2b, human recombinant (Cat # 4595-20, -100, -1000)
- IFN-alpha 1, human recombinant (Cat # 4596-10, -100, -1000)
- IFN-beta 1b, human recombinant (Cat # 4860-10, -50, -1000)
- IFN-gamma, human recombinant (Cat # 4116-20, -100, -1000)
- IFN-gamma, murine recombinant (Cat # 4117-20, -100, -1000)
- IFN-gamma, rat recombinant (Cat # 4118-50, -100, -1000)
- IFN-gamma Antibody (Cat # 5116-200)
- IFN-gamma Antibody (Cat # 5117-100)
- IFN-alpha Antibody (Cat # 5596-100)
- IFN-alpha Antibody (Cat # 5595R-100)
- IFN-alpha 2b Antibody (Cat # 5595-100)

FOR RESEARCH USE ONLY! Not to be used in humans.