

## 32-1331: IFNW1 Recombinant Protein

**Alternative Name :** Interferon omega-1, Interferon alpha-II-1, IFNW1.

### Description

Source : Escherichia Coli. Interferon-Omega 1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 172 amino acids and having a molecular mass of 19.9kDa. The Interferon-Omega 1 is purified by proprietary chromatographic techniques. IFN-Omega 1 is a type I interferon, that can be induced by virus-infected leukocytes. Type I interferon family members, which include IFN-alpha, IFN-beta, and IFN-omega, signal through IFNAR-1/IFNAR-2 receptor complex, and wield antiviral and antiproliferative activities. IFNW1 exhibits about 75% sequence homology with IFN-a, and contains 2 conserved disulfide bonds, which are essential for full biological activity.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 100 µg  |
| <b>Purification :</b>      | Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.   |
| <b>Content :</b>           | Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.   |
| <b>Storage condition :</b> | Lyophilized IFNW1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IFNW1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |
| <b>Amino Acid :</b>        | MCDLPQNHGL LSRNTLVLLH QMRRISPFLC LKDRRDFRFP QEMVKGSQIQ KAHVMSVLHE MLQQIFSLFH<br>TERSSAAWNM TLLDQLHTGL HQQHQHLETC LLQVVGEGES AGAISSPALT LRRYFQGIHV YLKEKKYSDC<br>AWEVVRMEIM KSLFLSTNMQ ERLRSKDRDL GSS.   |

### Application Note

It is recommended to reconstitute the lyophilized IFNW1 in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub> was determined by a cytotoxicity assay using Human TF-1 cells is < 0.01 ng/ml, corresponding to a specific activity of > 100,000,000 units/mg.

