Recombinant Human Interferon Omega-1 (rh IFNW1)

Synonyms: Interferon alpha-II-1

Introduction: 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.

Description: Human recombinant IFNW1 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.

Source: Escherichia coli

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2µm filtered solution in PBS pH-7.4 The samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized IFNW1 in sterile H_2O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability: 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**.

Purity: Greater than 95.0% as determined by HPLC and SDS-PAGE.

Amino Acid Sequence: MCDLPQNHGL LSRNTLVLLH QMRRISPFLC LKDRRDFRFP QEMVKGSQLQ KAHVMSVLHE MLQQIFSLFH TERSSAAWNM TLLDQLHTGL HQQLQHLETC LLQVVGEGES AGAISSPALT LRRYFQGIRV YLKEKKYSDC AWEVVRMEIM KSLFLSTNMQ ERLRSKDRDL GSS.

Biological Activity: Determined by a cytotoxicity assay using human TF-1 cells the ED50 is \leq 0.01 ng/ml, corresponding to a specific activity of \geq 1 x 10⁸ IU/mg.

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small	20 µg	Cat.N°	11344784
medium	100 µg	Cat.N°	11344786