

IFNW1 Human

Description: 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.

Catalog #: CYP5-047

Synonyms: Interferon omega-1, Interferon alpha-II-1, IFNW1.

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

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

Purity: Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

Lyophilized from a 0.2

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized IFNW1 in sterile 18M-cm H₂O not less than 100

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.

Biological Activity:

The ED50 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.

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