

Recombinant Human IFNW1 protein

Cat. No. IFNW1-534H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IFNW1 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	172
Description	Interferon-Omega (IFN-ω) coded by IFNW1 gene in human, is a member of the type I interferon family, which includes IFN-α, IFN-β, and IFN-ω. The IFNAR-1/IFNAR-2 receptor complex can help with the signal transduction, followed the antiviral or the antiproliferative actions. IFN-ω is derived from IFN-α/β and share 75 % sequence with IFN-α. It has two intramolecular disulfide bonds which are crucial for activities. Mire-Sluis et al have described bioassays for IFN-α, IFN-β, and IFN-ω that exploit the ability of these factors to inhibit proliferation of TF-1 cells induced by GM-CSF. The bioassays can be used also with Epo and TF-1 cells, or Epo and Epo-transfected UT-7 cells.
Form	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a chemotaxis bioassay using human TF-1 cells is less than 0.01 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^8$ IU/mg.

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Molecular Mass	Approximately 20.0 kDa, containing 172 amino acid residues with two conserved disulfide bonds.
AA Sequence	CDLPQNHGLLSRNTLVLLHQMRRISPFLCLKDRRDFRFPQEMVKGSQQLQKAHVMSV LHEMLQQIFSLFHTERSSAAWNMTLLDQLHTGLHQQLQHLETCLLQVVGEGESAGAI SSPALTLRRYFQGIRVYLKEKKYSDCAWEVVRMEIMKSLFLSTNMQERLRSKDRDL GSS
Endotoxin	Less than 1 EU/μg of rHuIFN-ω as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IFNW1
Official Symbol	IFNW1
Synonyms	IFNW1; interferon, omega 1; interferon omega-1; IFN omega 1; interferon omega 1; interferon alpha-II-1; IFN-omega 1, interferon omega-1;

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Gene ID	3467
mRNA Refseq	NM_002177
Protein Refseq	NP_002168
MIM	147553
UniProt ID	P05000

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