

IFNW1

Recombinant Human Interferon Omega

Catalog No.	CS484A CS484B CS484C	Quantity:	20 µg 100 µg 1 mg
Alternate Names:	IFN-omega 1, interferon omega-1		
Description:	<p>Interferon-Omega (IFN-omega) coded by IFNW1 gene in human, is a member of the type I interferon family, which includes IFN-alpha, IFN-beta, and IFN-omega. The IFNAR-1/IFNAR-2 receptor complex can help with the signal transduction, followed the antiviral or the antiproliferative actions. IFN-omega is derived from IFN-alpha/beta and share 75% sequence with IFN-alpha. It has two intramolecular disulfide bonds which are crucial for activities. Mire-Sluis et al have described bioassays for IFN-alpha, IFN-beta, and IFN-omega 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.</p> <p>Recombinant Human Interferon Omega is a single, non-glycosylated polypeptide containing 172 amino acid residues with two conserved disulfide bonds.</p>		
Gene ID:	3467		
Source:	<i>E. coli</i>		
Molecular Weight:	Approximately 19.9 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
Purity:	>97% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ determined by a chemotaxis bioassay using human TF-1 cells is less than 0.01 ng/ml.		
Specific Activity:	> 1.0 × 10 ⁸ IU/mg.		
Amino Acid Sequence:	CDLPQNHGLL SRNTLVLLHQ MRRISPFLCL KDRRDFRFPQ EMVKGSQQLQK AHVMSVLHEM LQQIFSLFHT ERSSAAWNMT LLDQLHTGLH QQLQHLETCL LQVVGEGESGA GAISSPALTL RRYFQGIRVY LKEKKYSDCA WEVVRMEIMK SLFLSTNMQE RLRSKDRDLG SS		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		

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