

IFN-omega Recombinant Protein | IFNW1 recombinant protein

IFN-omega Protein, Human, Recombinant (hFc Tag)

CATALOG #
AAA257416

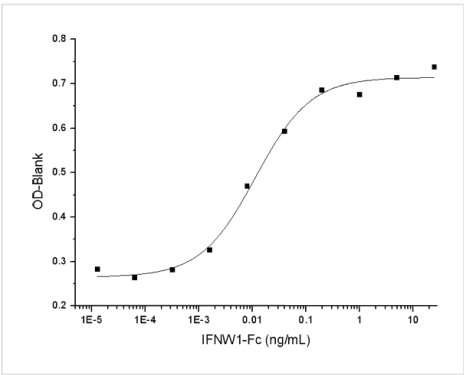
HOST
HEK293 Cells

PRODUCT SYNONYMS

IFN-omega; IFN-omega Protein; Human; Recombinant (hFc Tag); Human Interferon omega-1/IFNomega/IFNW1 Protein (Fc Tag); interferon; omega 1; IFN-omega 1 Protein; IFNW1 Protein; interferon omega-1 Protein; IFNW1 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>92 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4 Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	409aa
Sequence	Cys24-Ser1 95
Species	Human
Tag	hFc
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu20
Protein Construction	JA DNA sequence encoding the human IFNomega (NP_002168.1) (Cys 24-Ser 195) was fused with the Fc region of human IgG1 at the N-terminus
Activity	Measured in antiviral assays using WISH human amnion cells infected with vesicular stomatitis virus (VSV). The EC50 for this effect is 0.03-0.3ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack



Application Data

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ADDITIONAL INFORMATION

Related Product Information for IFNW1 recombinant protein	IFNs are a large family of proteins having antiviral, antiproliferative, and immunomodulatory effects, and are divided into two major classes, type I and type II, based on differences in receptor binding and nucleotide sequence. Type I IFNs consist of IFN alpha, beta, tau, and omega and bind to the type I IFN receptor, whereas IFN-gamma is the only type II IFN and is specific for the type II IFN receptor. Human IFN-omega, was identified by three independent groups in 1985 and is structurally related to IFN-alpha and -beta. Both human IFN-omega and IFN-alpha are produced by virally induced leukocytes and have similar antiviral activities on human cell lines, and a sizeable proportion (at least 1%) of the total antiviral activity of leukocyte IFN is contributed by IFN-omega. Also, it was reported that IFN-omega could inhibit the growth of human tumors in vivo.
References	Capon D.J., et al., (1985), Two distinct families of human and bovine interferon-alpha genes are coordinately expressed and encode functional polypeptides. Mol. Cell. Biol. 5:768-779.Adolf G.R., et al., (1991), Human interferon omega 1: isolation of the gene, expression in Chinese hamster ovary cells and characterization of the recombinant protein.Biochim. Biophys. Acta 1089:167-174.Humphray S.J., et al., (2004), DNA sequence and analysis of human chromosome 9.Nature 429:369-374.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504605
NCBI GeneID	3467
NCBI Accession #	NP_002168.1
NCBI GenBank Nucleotide #	NM_002177.1
UniProt Accession #	P05000; Q13168; Q5U802; Q5VWD0; Q7M4P5
Molecular Weight	22,319 Da
NCBI Official Full Name	interferon omega-1
NCBI Official Synonym Full Names	interferon, omega 1
NCBI Official Symbol	IFNW1
NCBI Protein Information	interferon omega-1; IFN-omega 1, interferon omega-1; interferon alpha-II-1
UniProt Protein Name	Interferon omega-1
UniProt Gene Name	IFNW1
UniProt Entry Name	IFNW1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ifnw1-recombinant-protein-hek293-cells/257416>