

Recombinant Ovine IFNT protein

Cat. No. IFNT-290 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Ovine IFNT protein was expressed in Yeast
Species	Ovine
Source	Yeast
ProteinLength	172
Description	IFN-τ is a new class of type I IFN that is secreted by the trophoblast and is the signal for maternal recognition of pregnancy in sheep. IFN-τ has potent immunosuppressive and antiviral activities similar to other type I IFN but is less cytotoxic than IFN-α/β. The current investigation concerns the effect of recombinant ovine IFN-tau (rOvIFN-τ) on the modulation of MHC class I and II expression on cloned mouse cerebrovascular endothelial (CVE) cells. IFN-tau induced tyrosine phosphorylation of Stat1 and up regulated the expression of MHC class I on CVE. One proposed action by which type I IFN reduce the relapse rate in MS is via interference with IFN-γ-induced MHC class II expression. IFN-τ was shown to down regulate IFN-γ-induced MHC class II expression on CVE and, hence, may be of potential therapeutic value in down regulating inflammation in the central nervous system (CNS). IFN-τ did not upregulate the expression of MHC class II on CVE. IFN-τ also inhibited the replication of Theiler's virus in CVE.
Form	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.

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Bio-activity	Fully biologically active when compared to IFN-alpha. The specific activity determined by a viral resistance assay is no less than 1.0×10^7 IU/mg.
Molecular Mass	Approximately 19.9 kDa, a single glycosylated polypeptide chain containing 172 amino acids.
AA Sequence	CYLSRKLM LDAREN LKLLDR MNRLSP HSC LQDR KDFGLPQEMVEGDQLQKDQAFP VLYEMLQQSFNLFYTEHSSAAWDTTLLEQLCTGLQQQLDHLDTCRGQVMGEEDSE LGNMDPIVTVKKYFQGIYDYLQEKGYSDCAWEIVRVEMMRALT VSTTLQKRLTKMG GDLNSP
Endotoxin	Less than 0.1 EU/g of rOvIFN- τ 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	IFNT
Official Symbol	IFNT

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Gene ID	100144750
mRNA Refseq	NM_001123399.1
Protein Refseq	NP_001116871.1
UniProt ID	P56828

SDS-PAGE of IFNT-290

