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Datasheet for ABIN988005 Interferon Tau Protein

Overview

Quantity:	10 µg
Target:	Interferon Tau
Origin:	Sheep
Source:	Yeast (<i>Pichia pastoris</i>)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	CYLSRKMLMD ARENLKLLDR MNRLSPHSCL QDRKDFGLPQ EMVEGDQLQK DQAFPVLYEM LQQSFNLFYT EHSSAAWDTT LLEQLCTGLQ QQLDHLDTCR GQVMGEEDSE LGNMDPIVTV KKYFQGIYDY LQEKGYSDCA WEIVRVEMMR ALTVSTTLQK RLTKMGDDL N S
Characteristics:	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.
Purity:	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1EU/µg of rOVIFN-tau as determined by LAL method

Target Details

Target:	Interferon Tau
Alternative Name:	Interferon-tau (IFN-Tau) (Interferon Tau Products)
Background:	IFN-tau 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- tau has potent immunosuppressive and

Target Details

antiviral activities similar to other type I IFN but is less cytotoxic than IFN- α /beta. The current investigation concerns the effect of recombinant ovine IFN- tau (rOvIFN- tau) 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 upregulated 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- tau was shown to downregulate IFN- γ -induced MHC class II expression on CVE and, hence, may be of potential therapeutic value in downregulating inflammation in the central nervous system (CNS). IFN- tau did not upregulate the expression of MHC class II on CVE. IFN- tau also inhibited the replication of Theiler's virus in CVE. Synonym: Interferon-tau (IFN-tau), Ovine. Formulation: Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.

Molecular Weight:	Approximately 19.9 kDa, a single non-glycosylated polypeptide chain containing 172 amino acids.
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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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 °C. Further dilutions should be made in appropriate buffered solutions.
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Storage:	4 °C
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