

## Bovine Interferon Tau - Purified

<b>Catalog No.:</b>	AR10452PU-S
<b>Quantity:</b>	0.1 U
<b>Background:</b>	<p>IFN-tau is also known as TP-1 (trophoblast protein-1) 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 antiviral activities similar to other type I IFN but is less cytotoxic than IFN-alpha and IFN-beta. The current investigation concerns the effect of recombinant ovine IFN- tau (rOIFN- tau) on the modulation of MHC class I and II expression on cloned mouse cerebrovascular endothelial (CVE) cells.</p> <p>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 reduces the relapse rate in MS is via interference with IFN-<math>\gamma</math>-induced MHC class II expression. IFN- tau was shown to downregulate IFN-<math>\gamma</math>-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.</p>
<b>Uniprot ID:</b>	<a href="#">P15696</a>
<b>NCBI:</b>	<a href="#">NP_001015511.3</a>
<b>GeneID:</b>	<a href="#">317698</a>
<b>Species:</b>	Bovine
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> > 95% pure by SDS PAGE <b>Buffer System:</b> PBS <b>Stabilizers:</b> 0.1% BSA
<b>Description:</b>	<p>Purified recombinant Bovine IFN-Tau protein.</p> <p><b>Biological Activity:</b> In this antiviral assay for interferon about 1 unit/ml of Interferon is the quantity necessary to produce a cytopathic effect of 50%</p> <p><b>Molecular weight:</b> 20 kDa</p>
<b>Storage:</b>	Store (in aliquots) at -20°C to -80°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.