**PRODUCT INFORMATION**

**Description:** 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 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-tau) on the modulation of MHC class I and II expression on cloned mouse cerebrovascular endothelial (CVE) cells.

**Amino-Acid Sequence:** 172 aa, non-glycosylated

**M. W.:** 20 kDa

**Recombinant:** Expressed in *Pichia. Pastoris*

**Purity:** >95% by SDS-PAGE and HPLC analyses.

**Formulation:** Lyophilized from a 0.2µm filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

**Specific Activity:** Fully biologically active when compared to IFN-alpha. The specific activity as determined in a viral resistance assay was found to be no less than 1.0 x 10^7 IU/mg.

**Endotoxin:** Less than 1EU/µg of rOvIFN-tau as determined by LAL method.

**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.

**Storage:** This lyophilized preparation is stable for several weeks at 2-8°C, but should be kept at −20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at −20°C to −70°C. Avoid repeated freeze/thaw cycles.

**REFERENCES**


**GENE INFORMATION**

**Gene Name:** IFN-tau

**Synonym:** Interferon-tau; TP-1; TP-1 trophoblast protein-1; Trophoblastin; Antiluteolysin; Trophoblast antiluteolytic protein; OTP; IFNT1; IFNT4

**Gene Type:** protein coding

**mRNA Refseq:** NM_001123399.1

**Protein Refseq:** NP_001116871.1

**GenID:** 100144750

**UniProt ID:** P56828