

## Interferon-tau

### Ovine , Recombinant (rOvIFNtau)

Expressed in *Pichia. Pastoris*

Cat. No. CRP08103

Lot. No. (See product label)

#### 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- $\alpha/\beta$ . 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.

**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 0.2 $\mu$ m 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<sup>7</sup> IU/mg.

**Endotoxin:** Less than 1EU/ $\mu$ g 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.

#### FOR RESEARCH USE ONLY

#### 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](#)

**GeneID:** [100144750](#)

**UniProt ID:** [P56828](#)

#### REFERENCES

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