

Recombinant Cattle IFNT2 Protein, His-tagged

Cat. No. IFNT2-985C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Cattle IFNT2 Protein (Cys24-Leu195) with His tag was expressed in E. coli.
Species	Cattle
Source	E.coli
ProteinLength	Cys24-Leu195
Description	Paracrine hormone primarily responsible for maternal recognition of pregnancy. Interacts with endometrial receptors, probably type I interferon receptors, and blocks estrogen receptor expression, preventing the estrogen-induced increase in oxytocin receptor expression in the endometrium. This results in the suppression of the pulsatile endometrial release of the luteolytic hormone prostaglandin F2-alpha, hindering the regression of the corpus luteum (luteolysis) and therefore a return to ovarian cyclicity. This, and a possible direct effect of IFN-tau on prostaglandin synthesis, leads in turn to continued ovarian progesterone secretion, which stimulates the secretion by the endometrium of the nutrients required for the growth of the conceptus. In summary, displays particularly high antiviral and antiproliferative potency concurrently with particular weak cytotoxicity, high antiluteolytic activity and immunomodulatory properties. In contrast with other IFNs, IFN-tau is not virally inducible.
Form	Freeze-dried powder

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Predicted Molecular Mass: 23.5 kDa; Accurate Molecular Mass: 23 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	100mM NaHCO ₃ , 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in ddH ₂ O to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	IFNT2 interferon tau [Bos taurus (cattle)]
Official Symbol	IFNT2
Synonyms	IFNT2; interferon tau; IFNT; TP-1; IFNT1; IFN-tau-c2; interferon tau-2; IFN-tau-1; IFN-tau-2; IFN-tau1; IFN-tau2; antiluteolysin; interferon alpha II; interferon tau-1; interferon, trophoblast; interferon-tau1e; interferon-tau3e; trophoblast antiluteolytic protein; trophoblast protein-1; trophoblast type I interferon; trophoblastin
Gene ID	317698

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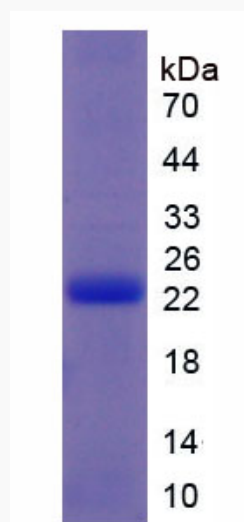
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mRNA Refseq [NM_001015511](#)

Protein Refseq [NP_001015511](#)

UniProt ID [P15696](#)



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