Recombinant Bovine IFNT2 Protein, His-tagged

Cat. No. IFNT2-170B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine IFNT2 Protein (24-195aa) with N-terminal 6xHis tag was expressed in Yeast.
Species	Bovine
Source	Yeast
ProteinLength	24-195 a.a.
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.
Molecular Mass	21.8 kDa

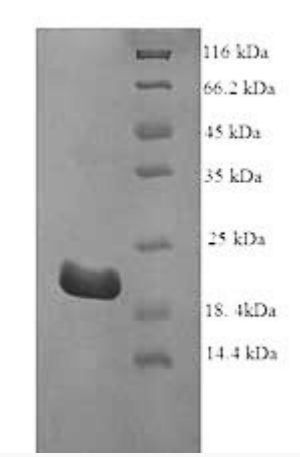
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AA Sequence	CYLSEDHMLGARENLRLLARMNRLSPHPCLQDRKDFGLPQEMVEGNQLQKDQAIS VLHEMLQQCFNLFYTEHSSAAWNTTLLEQLCTGLQQQLEDLDACLGPVMGEKDSD MGRMGPILTVKKYFQGIHVYLKEKEYSDCAWEIIRVEMMRALSSSTTLQKRLRKMGG DLNSL
Purity	Greater than 90% as determined by SDS-PAGE.
Stability	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Storage	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage Buffer	Tris-based buffer, 50% glycerol

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 antiluteolyti
Gene ID	317698
mRNA Refseq	NM_001015511

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Protein Refseq	NP_001015511
UniProt ID	P15696
SDS-PAGE	 (Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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