

Interferon tau-1 Recombinant Protein | IFNT1 recombinant protein

Recombinant Bovine Interferon tau-1

CATALOG #
AAA18629

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

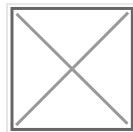
PRODUCT SYNONYMS

Interferon tau-1; Recombinant Bovine Interferon tau-1; Antiluteolysin; Trophoblast antiluteolytic protein; Trophoblast protein 1; TP-1Trophoblastin; IFNT1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	24-195aa; Full Length of Mature Protein
Sequence	CYLSSEHMLG ARENLRLLAR MNRLSPHPCL QDRKDFGLPQ EMVEGNQLQK DQAISVLHEM LQQCFNLFYT EHSSAAWNTT LLEQLCTGLQ QQLEDLDA CL GPVMGEKDSD MGRMGPI TV KKYFQGIHVY LKEKEYSDCA WEIIRVEMMR ALSSSTTLQK RLRKMGGDLN SL
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for IFNT1 recombinant protein

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.

References	Molecular cloning and characterization of complementary deoxyribonucleic acids corresponding to bovine trophoblast protein-1 a comparison with ovine trophoblast protein-1 and bovine interferon-alpha II.Imakawa K., Hansen T.R., Malathy P.-V., Anthony R.V., Polites H.G., Marotti K.R., Roberts R.M.Mol. Endocrinol. 3:127-139(1989) Structure of an interferon-alpha 2 gene expressed in the bovine conceptus early in gestation.Stewart H.J., McCann S.H., Flint A.P.F.J. Mol. Endocrinol. 4:275-282(1990) The genes for the trophoblast interferons and the related interferon-alpha II possess distinct 5'-promoter and 3'-flanking sequences.Hansen T.R., Leaman D.W., Cross J.C., Mathialagan N., Bixby J.A., Roberts R.M.J. Biol. Chem. 266:3060-3067(1991) Stewart H.J. Roberts R.M.Cloning bovine interferon-tau genes and characterizing their transcriptional expression during early pregnancy.Chung Y.G., Seidel G.E. Jr.The expressed genes for bovine interferon-tau identification and expression during conceptus development.Larson S.F., Liu L., Winkelman G.L., Kubisch H.M., Bixby J.A., Roberts R.M., Ealy A.D.A three-dimensional model of interferon-tau.Senda T., Saitoh S., Mitsui Y., Li J., Roberts R.M.J. Interferon Cytokine Res. 15:1053-1060(1995) IFN-tau a novel subtype I IFN1. Structural characteristics, non-ubiquitous expression, structure-function relationships, a pregnancy hormonal embryonic signal and cross-species therapeutic potentialities.Martal J.L., Chene N.M., Huynh L.P., L'Haridon R.M., Reinaud P.B., Guillomot M.W., Charlier M.A., Charpigny S.Y.Biochimie 80:755-777(1998)
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NCBI AND UNIPROT INFORMATION

NCBI GI #	269973909
NCBI GeneID	317698
NCBI Accession #	NP_001015511.3
NCBI GenBank Nucleotide #	NM_001015511.3
UniProt Accession #	P15696; P15694; Q28126; Q28127; Q28128; Q28191; Q95NE2; P56830
Molecular Weight	21.8 kDa
NCBI Official Full Name	interferon tau-2
NCBI Official Symbol	IFNT2
NCBI Official Synonym Symbols	IFNT; TP-1; IFNT1; IFN-tau-c2
NCBI Protein Information	interferon tau-2
UniProt Protein Name	Interferon tau-1
UniProt Gene Name	IFNT1
UniProt Synonym Gene Names	IFN-tau-1; TP-1
UniProt Entry Name	IFNT1_BOVIN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.