Recombinant Bovine Interferon tau-1(IFNT1)

Catalog No: #AP71014

Package Size: #AP71014-1 20ug #AP71014-2 100ug #AP71014-3 1mg

Signalway Antibody
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Description

Product Name	Recombinant Bovine Interferon tau-1(IFNT1)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:24-195aaSequence Info:Full Length
Other Names	Antiluteolysin;Trophoblast antiluteolytic protein;Trophoblast protein 1 ;TP-1Trophoblastin
Accession No.	P15696
Calculated MW	23.8 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	CYLSEDHMLGARENLRLLARMNRLSPHPCLQDRKDFGLPQEMVEGNQLQKDQAISVLHEMLQQCFNLFYTE HSSAAWNTTLLEQLCTGLQQQLEDLDACLGPVMGEKDSDMGRMGPILTVKKYFQGIHVYLKEKEYSDCAWEII RVEMMRALSSSTTLQKRLRKMGGDLNSL
Formulation	Tris-based buffer50% glycerol
Storage	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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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)Research Topic:Others