

prolactin soluble receptor Active Protein

Bovine prolactin soluble receptor

CATALOG #
AAA60571

HOST
E Coli

PRODUCT SYNONYMS

prolactin soluble receptor; Bovine prolactin soluble receptor; Bovine prolactin soluble receptor ECD; prolactin soluble receptor active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. (c) Gel filtration at pH 8 under non denaturative conditions.
Form/Format	Filtered White lyophilized (freeze-dried) powder.
Sequence	Thesequence of the first five N-terminal amino acids was determined to be Ala-Gln-Ser-Pro-Pro.
Solubility	It is recommended to reconstitute the lyophilized PRLR-ECD in sterile 18M-cm H ₂ O not less than 100ug/ml and not more than 1 mg/ml, which can then be further diluted to other aqueous solutions preferably containing carrier protein like BSA or HSA.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 2.77 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of PRL-R as a Reference Standard.
Dimers and Aggregates	Less than 3%.
Endotoxin	Less than 0.1 ng/ug (IEU/ug) of bPRLR-ECD (24 kDa).
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO ₃ .
Biological Activity	Activity is determined by the dose-dependant inhibition of PRL-stimulated proliferation of Nb2 cells and by high affinity binding of oPLR and other lactogenic hormones.
Preparation and Storage	Lyophilized PRLR-ECD although stable at room temperature for 1-2 weeks, should be stored desiccated below -18 degree C or preferably even at -80 degree C to prevent dimer formation. Upon reconstitution PRLR-ECD should be stored sterile at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage at 4 degree C it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles as they cause oligomerization of the protein.

ADDITIONAL INFORMATION

Related Product Information for prolactin soluble receptor active protein	Prolactin is a pituitary hormone involved in the stimulation of milk production, salt and water regulation, growth, development and reproduction. The initial step in its action is the binding to a specific membrane receptor (prolactin receptor) which belongs to the superfamily of class 1 cytokine receptors. Prolactin (PRL) is a hormone involved in a variety of important functions including ion transport and osmoregulation, stimulation of milk, protein synthesis as well as the regulation of numerous reproductive functions. PRL exerts its influence on different cell types through a signal transduction pathway which begins with the binding of the hormone to a transmembrane PRL receptor. PRL receptor, varies in size (short and long forms) with tissue source and species, from ~40 kDa to 100 kDa. The PRL receptor consists of at least three separate domains: an extracellular region with 5 cysteines which contains the prolactin binding site, a single transmembrane domain and a cytoplasmic region, the length of which appears to influence ligand binding and regulate cellular function. Recombinant bovine Prolactin Receptor Extra Cellular Domain (bPRLR-ECD) produced in E.Coli is a non-glycosylated, polypeptide chain containing 211 amino acids and having a molecular mass of 24482 kDa was prepared according to Tchelet (1995) J. Endocrinology 144, 393-403 and tested according to Gertler et al. (1996) JBC 271; 24482-91.
Product Categories/Family for prolactin soluble receptor active protein	Soluble receptors

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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/prolactin-soluble-receptor/60571>