9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Placental Lactogen Caprine

Placental Lactogen Caprine Recombinant
GRF0325

Product Overview

Name	Placental Lactogen Caprine

Description

Placental Lactogen Caprine Recombinant

Synonyms

Chorionic Somatomammotropin Hormone 1, CSH1, CS-1, hCS, PL.

Introduction

Placental Lactogen is a polypeptide hormone that is produced by the Syncytiotrophoblasts of the Placenta, also known as chorionic somatomammotropin. It has both Growth Hormone and Prolactin activities on growth, lactation, and luteal steroid production. In women, placental lactogen secretion begins soon after implantation and increases to 1 g or more a day in late pregnancy. Placental lactogen is also an insulin antagonist. Placental Lactogen Goat is also capable of activating human and other heterologous GH receptors but not ruminat GH receptors.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from a concentrated (1mg/ml) solution with 0.02-0.03% NaHCO3.

Stability

Lyophilized Placental Lactogen Caprine Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Placental Lactogen Goat should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

The sequence of the first four N-terminal amino acids was determined and was found to be Ala-Glu-Asn-Tyr.

Biological Activity

Placental Lactogen Caprine is biologically active as evidenced by inducing proliferation of Nb2 cells.

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Solubility

It is recommended to reconstitute the lyophilized Placental Lactogen in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Protein content

UV spectroscopy at 280 nm using the absorbency value of 0.85 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).

Precautions

Placental Lactogen Caprine is for research use only and not for use in diagnostic or therapeutic procedures.