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

Placental Lactogen Ovine

Placental Lactogen Ovine Recombinant
GRF0327

Product Overview

Name	Placental Lactogen Ovine
Description	
Placental Lactogen Ovine Recombinant	
Accession (Primary)	P16038
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 Ovine 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% $NaHCO_3$.	
Stability	
Lyophilized Placental Lactogen Ovine Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Placental Lactogen 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 five N-terminal amino acids was determined and was found to be Ala-Gln-His-Pro-Pro.	
Biological Activity	

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

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 Ovine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P16038)