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## Product Data Sheet

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Product Name: Placental Lactogen Caprine  
 Cat. No.: GP20837  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Chorionic Somatomammotropin Hormone 1; CSH1; CS-1; hCS; PL.		
Amino Acid Sequence	The sequence of the first four N-terminal amino acids was determined and was found to be Ala-Glu-Asn-Tyr.		
Solubility	It is recommended to reconstitute the lyophilized Placental Lactogen in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a concentrated (1mg/ml) solution with 0.02-0.03% NaHCO <sub>3</sub> .		

### 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 ruminant GH receptors.

### Biological Activity

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

### Stability

Lyophilized Placental Lactogen Caprine Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

### Background

Placental Lactogen Caprine Recombinant, is a single polypeptide chain containing 199 amino acids and an additional Ala at the N-terminus having a molecular mass of 23 kDa. Placental Lactogen Recombinant Goat is purified by proprietary chromatographic techniques.

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