
Product Data Sheet

Product Name: Placental Lactogen Sf9, Human

Cat. No.: GP26066

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Chorionic Somatomammotropin Hormone 1, CSH1, Choriomammotropin, Lactogen, CSH2, PL, CSA, CSMT, FLJ75407		
Amino Acid Sequence	VQTVPLSRLF DHAMLQAHRA HQLAIDTYQE FEETYIPKDQ KYSFLHDSQT SFCFSDSIPT PSNMEETQOK SNLELLRISL LLIESWLEPV RFLRSMFANN LVYDTSDD YHLLKDLEEG IQTLMGRLED GSRRTGQILK QTYSKFDTNS HNHDALLKNY GLLYCFRKDM DKVETFLRMV QCRSVEGSCG FHHHHHH		
Formulation	The Placental Lactogen solution (0.25mg/ml) contains 30% Glycerol and Phosphate-Buffered Saline (pH 7.4).		

Introduction

Placental Lactogen is a polypeptide hormone that is produced by the Syncytiotrophoblasts of the Placenta. Placental Lactogen has both GH 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 Bovine is also capable of activating human and other heterologous GH receptors.

Biological Activity

Determined by cell proliferation assay using Nb2-11 Rat lymphoma cells. ED50 range for this effect is ≤ 0.8 ng/ml.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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

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Background

Placental Lactogen Human produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 197 amino acids (27-217 aa) and having a molecular mass of 23.1kDa. Placental Lactogen is fused to a 6 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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